

ANNUAL REPORT (April 2017 to March 2018)

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, 2018)

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. 29950.00	19-07-04	Permanent	Others
3	Scientist	Dr. Anil Kumar	Scientist	Horticulture	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 32510.00	19-07-04	Permanent	Others
4	Scientist	Sri Vinay Kumar	Scientist	Agril. Engg.	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 29950.00	20-07-04	Permanent	Others
5	Scientist	Mrs Neena Bharti	Scientist	Plant Protection	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 29950.00	20-07-04	Permanent	ST
6	Scientist	Dr. Nandana Kumari	Scientist	Home Science	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 29950.00	19-07-04	Permanent	Others
7	Programme Assistant	Dr. Rupa Rani	Programme Assistant	Horticulture	PB (9300-34800) GP-Rs. 4200.00 Basic- Rs. 20480.00	16-03-05	Permanent	Others
8	Computer Programmer	Naman Kandulna	Computer Assistant		PB (9300-34800) GP-Rs. 4200.00 Basic- Rs. 19120.00	20-07-04	Permanent	ST
9	Farm Manager	-	-	-	-	-	-	-
10	Accountant / Superintendent	Sri Abhay Kumar Singh	O.S.cum Accountant	-	9300.00		Contractual Staff	Others
11	Stenographer	Sri Ratnesh Kumar Mishra	Stenographer	-	5200.00		Contractual Staff	Others
12	Driver	Sri Ranchandra Lohar	Driver	-	5200.00		Contractual Staff	ST

13.	Driver	Sri Panchanand Mahto		-	5200.00		Contractual Staff	Others
14.	Supporting staff	Sri Ruplal Marandi		-	4440.00		Contractual Staff	ST
15.	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	320000 K.M.	Required to be replaced
Tractor	2006	361200.00	1200 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 moulded VGA cable	2007	7500.00	Good	I.C.A.R.

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

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Seed drill cum fertilizer drill	2005	775.00	Good	I.C.A.R.
Birsa ridger plough	2005	485.00	Good	I.C.A.R.
Japanese paddy weeder	2005	525.00	Good	I.C.A.R.
Dryland weeder	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

Sl. No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	04-02-2017	33	➤ Use of fertilizer must be on the basis of soil test.	OFT on sweet corn has been conducted.	
2.			➤ OFT based recommendations should be popularized through FLD and recommendations should be given to PD ATMA for wide spread of the technology.	Suitable technologies of the district is being given to PD ATMA on pre kharif and pre rabi season regularly for wide spread of the technology.	
3.			➤ Observations should be taken related to all concern parameters regarding problem of the OFTs in varietal trails of ladies finger against YVM.	Observation parameter related to YVM has been recorded and incorporated in reports.	
4.			➤ OFT on impact of tillage on yield of late sown wheat should be concluded.	OFT on impact of tillage on yield of late sown wheat has been concluded.	
5.			➤ Resistance variety of ladies finger against fruit & shoot borer should be given more priority in place of different chemical insecticides. Integrated approach should be taken against pest & disease in lady finger and work jointly to be carried out by Horticulture Scientist.	Integrated pest management of fruit & shoot borer has been promoted through training programme.	
6.			➤ OFT on control of damping off disease on tomato should be concluded and promote to grow healthy seedling through scientific method.	OFT on control of damping off diseases on tomato has been concluded and 2 nos. of training programme was conducted on production of healthy seedling to promote production of disease free seedling.	
7.			➤ Underutilized cereals and pulses should be promoted among farmers.	Underutilized cereals and pulses has been promoted through CFLD (Conducted 12 ha on Horse gram variety Birsa Kulthi 1) and included in Action Plan 2018-19.	
8.			➤ OFT on phosphorus application in zero tillage wheat should be recasted and specify the dose of fertilizer in form of NPK.	OFT on Phosphorus application in zero tillage wheat was recasted as per suggestion.	

9.			➤ Training should be given to farmers and FLD should be done on milk processing.	Processing techniques of milk has been popularized through training programme. 1 Training programme conducted and 19 nos. of farmers participated.	
10.			➤ Training should be given to farmers on value addition of locally available vegetable.		
11.			➤ OFT on different storage structure should be replaced.	OFT on storage structure has been replaced and new OFT formulated on parboiling methods of paddy grain.	

List of the members attended the 12th SAC meeting:-

1. Dr. R.P. Singh 'Ratan', Director, Extension Education, BAU, Ranchi - Member
2. Sri Uday Kr. Singh, Sr. Scientist & Head, KVK, Bokaro - Member
3. Sri Paras Nath Oraon, DHO and DAO-cum-P.D ATMA, Bokaro - Member
4. Sri Ashok Sahu, DDM, NABARD, Bokaro - Member
5. Sri Ram Narayan Rajak, District Soil Conservation Officer, Bokaro - Member
6. Sri Naveen Kumar, Fishery Extension Officer, Bokaro - Member
7. Dr. Kamlesh Prasad T.V.O. Petarwar, Bokaro - Member
8. Sri Om Prakash, Nodal Officer, ISAP, Bokaro - Member
9. Sri Binod Kumar Singh, D.P.M. Support, Bokaro - Member
10. Sri Chandan Kumar, Junior Engineer, Minor Irrigation, Bokaro - Member
11. Rajiv Kumar, Assistant Soil Conservation Officer, Bokaro - Member
12. Dr. Anil Kumar, Scientist, Horticulture, KVK, Bokaro - Member
13. Er. Vinay Kumar, Scientist, Agril. Engg., KVK, Bokaro - Member
14. Dr. (Mrs.) Nandana Kumari, Scientist, Home Science, KVK, Bokaro - Member
15. Mrs. Neena Bharti, Scientist, Plant Protection, KVK, Bokaro - Member
16. Sri Mehi Lal Gope, Krishak Miatra, Gomia - Member
17. Sri Krishna Mahto, Progressive Farmer, Jaradih, Koh, Petarwar - Member
18. Sri Radheshyam Bedia, Progressive Farmer, Chargi, Petarwar - Member
19. Sri Sumitra Nandan Mahto, Progressive Farmer, Manjura, Kasmar - Member
20. Sri Koushal Kishor Jaiswal, Progressive Farmer, Manjura, Kasmar - Member
21. Sri Manohar Kumar Mahto, Progressive Farmer - Member
22. Smt. Anamika Devi, Progressive Farmer, Koh, Petarwar - Member

23. Sri Mithlesh Kumar, News 11 Reporter, Gomia - Member
24. Sri Pankaj Kumar Sinha, Press Reporter, Petarwar, Bokaro - Member
25. Sri Pradeep Kumar Sethi, press Reporter - Member
26. Sri Abhimanyu Kr. Mahto, Press Reporter - Member
27. Sri Nirmal Kumar, Photographer, BAU, Ranchi
28. Dr. Bably, R.A. NICRA, KVK, Bokaro
29. Sri Naman Kandulna, Computer Assistant, KVK, Bokaro
30. Sri T.N. Tiwary, Assistant, KVK, Bokaro
31. Sri Chitranjan Mahto, Farmer
32. Smt. Ugeshwari Devi, Farmer
33. Sri Gupteshwar, Mahto, Farmer

** Salient recommendation of SAC in bullet form*

Attach a copy of SAC proceedings along with list of participants

2. District level data on agriculture, livestock and farming situation (2017-18)

Sl. no.	Item	Information
1	Major Farming system/enterprise	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	IV- Central North Eastern Plateau Zone Characteristics: Geographical area of Zone = 41293 K.m ² 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

		<p>where as medium land soil are yellow coloured, slightly to moderate acidic, some what poorly drained & moderately fertile where as the soils of Koderma side are light textured, silty in nature, yellowish to reddish in colour & neutral to moderately acidic in reaction. These are poor to moderate in N, poor in available P and rich to very rich in K. Very limited irrigation potential has been exploited in this zone. Although it is claimed that 8-9% area is irrigated. Larger part of agricultural land is rainfed. Less than 55% area comes under net cultivated area. Good forest is available on 12-13 percent land. Rice, maize, wheat, potato, linseed, rapseed and mustard, til, niger, ground nut and vegetables are major crops of the region.</p> <p>Climate of the Bokaro district is sub humid with water deficiency in winter. Temperature ranges from 2^oC in winter to 45^oC in hot summer. The main drainage system is Damodar & Swarnrekha rivers. Only 5-8% of net sown area is irrigated. The average annual rainfall of the district is 1275 mm. Upland soils are red to brownish red in colour, light textured, well drained, acidic in reaction and poor in organic carbon, N, Ca, Mg., P & S. Medium land soils are yellow, yellowish in colour, light to medium texture, 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, rench 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,

		<p>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.</p> <p>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.</p> <p>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.</p>																												
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	<table border="1"> <thead> <tr> <th>Crop</th> <th>Productivity (q /ha)</th> </tr> </thead> <tbody> <tr> <td>Paddy (Hybrid)</td> <td>40.00</td> </tr> <tr> <td>Paddy(HYV)</td> <td>28.00</td> </tr> <tr> <td>Wheat</td> <td>17.10</td> </tr> <tr> <td>Maiz</td> <td>16.00</td> </tr> <tr> <td>Arhar</td> <td>07.20</td> </tr> <tr> <td>Gram</td> <td>08.25</td> </tr> <tr> <td>Mustad</td> <td>6.2</td> </tr> <tr> <td>Groundnut</td> <td>7.5</td> </tr> <tr> <td>Niger</td> <td>2.1</td> </tr> <tr> <td>Brinjal</td> <td>259.0</td> </tr> <tr> <td>Tomato</td> <td>281.0</td> </tr> <tr> <td>Cauliflower</td> <td>274.0</td> </tr> <tr> <td>Cucurbitaceous</td> <td>160-200</td> </tr> </tbody> </table>	Crop	Productivity (q /ha)	Paddy (Hybrid)	40.00	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
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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 (2015-16)

Sl. No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified(Crop wise)	Identified Thrust Area
1.	Bermo	Petarwar	Ambadih, Chargi, Jaruatanr, Bundu, Lukaiya, Koh, Jaradih, Itke, Chanpi, Angwali, Kojram, Rukam etc.	Paddy Maize Groundnut Vegetables Potato Sweet potato Onion Mustard	1. Low productivity in cereals & pulses 2. Low profitability in vegetable cultivation 3. Low productivity in	1. Introduction of high yielding and hybrid varieties of paddy 2. INM & IPM in paddy 3. Introduction of disease

				Poultry Goatry	poultry & goatry	resistant variety of vegetable specially in tomato & brinjal
2.	Bermo	Kasmar	Durgapur, Raghunathpur, Madhukarpur, Mayapur, Kurko, Chandipur, Baraikala, Ranitanr, Manjura, Rangamati, Hisim, Kedla.	Paddy Maize Wheat Arhar Gram Niger Mustard Groundnut Vegetable Potato Sweet potato Lac Poultry Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	4. Introduction high yielding variety of Arhar gram, groundnut, mustard and Niger 5. Management of soil acidity through furrow application of lime and sweet potato cultivation with integrated nutrient management
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
4.	Bermo	Bermo	Jaridih, Govindpur	Paddy Maize Arhar Niger Vegetable Potato Lac Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in lac	11. Introduction of high yielding variety of maize and wheat with integrated crop management 12. Moisture conservation and micro irrigation system 13. Breed improvement in goatry and piggery
5.	Bermo	Chandrapura	Taranari, Narra, Telo, Jarua, Kurumba, Paranga	Paddy Maize Arhar Vegetable Potato	1. Low productivity in cereals & pulses 2. Low profitability in	14. Disease and feed management in poultry and

				Lac Poultry Goatry	vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in lac	goatry 15. Organic vegetable cultivation 16. Popularization of sweet corn and baby corn
6.	Bermo	Nawadih	Alargo, Bhalmara, Chapri, Narayanpur, Penk, Kothi	Paddy Maize Arhar Niger Vegetable Potato Lac Poultry Goatry Piggery	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry, goatry & piggery 4. Low productivity in oilseed crops 5. Low productivity in lac	17. Popularization of low volume high value vegetable crops such as broccoli, colourd capsicum, 18. Popularization of mushroom production
7.	Chas	Chas	Dharmapura, Pokhanna, Jhopro, Ulgoda, Pindrajora, Kasi Jharia,	Paddy Maize Wheat Arhar Gram Mustard Vegetable Poultry Goatry Lac	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low productivity in lac	
8.	Chas	Chandankiyari	Chandankiyari, Bansgari, Lanka, Machatanr, Siyaljori, Bermo	Paddy Maize Groundnut Vegetables Potato Poultry Goatry	1. Low productivity in cereals & pulses 2. Low profitability in vegetable crops 3. Low productivity in poultry & goatry 4. Low productivity in oilseed crops 5. Low	

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

(b) Details of village adoption programme:

Name of the villages adopted by Sr. Scientist & Head and Scientist in 2017-18 for its development and action plan

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

(c) Sansad Adarsh Gram Yojona

i) Name of the village under Sansad Adarsha Gram Yojona:

Kochakuli, Panchayat- Pichri, Block- Petarwar (Village selected on April 2016)

ii) Contribution of KVK in the programme:

Advisory service by putting stall during Janta Darbar Programme of Hon'ble MP on 8th April 2016.

2.7 Priority thrust areas

S. No	Thrust area
1.	Soil and water conservation
2.	Intensification in crop production system
3.	Crop diversification
4.	Development of seed production system.
5.	Value addition of fruits & vegetables.
6.	Improvement of indigenous poor breeds of livestock.
7.	Management of soil acidity.
8.	Promotion of lac cultivation
9.	Development of integrated farming system
10.	Insect pest and disease management of major crops
11.	Mushroom production and value addition

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievement of mandatory activities by KVK during 2017-18

OFT				FLD			
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
10	10	94	94				
				12	11	537	512

Training				Extension activities			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
117	105	3100	3188	3566	20191	11160	32009

Seed production (q)		Planting material (Nos.)	
Target	Achievement	Target	Achievement
100	107	5000	2830

3.1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Assessment of Hybrid Rice varieties under medium land condition.
2.	Problem diagnose	Low yield of hybrid rice in medium land due to selection of non-suitable varieties.
3.	Details of technologies selected for assessment	Farmers practice - Arize 6444 (135-140 days) Technological option i – JK 2020 (110 days) Technological option ii – Rashi 113 (110 days). Technological option iii – Arize Tez (110-115 days). Technological option iv – DRH-2 (115 – 120 days)
4.	Source of Technology	BAU, Ranchi
5.	Production system and thematic area	Integrated crop management
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	Individual contact with farmers and participatory approach.

Thematic area: Integrated crop management

Problem definition: **Low yield of hybrid rice in medium land due to selection of non-suitable varieties**

Technology assessed: Refinement

Table:1- Yield and yield attributing character of Hybrid rice.

Technology option	Maturity days	Plant height (cm)	Tillers/hill	1000 seed wt.	Grain yield (q/ha)	Straw yield (q/ha)	Gross return (Rs/ha)	Net return (Rs/ha)	B:C ratio
Farmers practice – Arize 6444	140-145	112.2	16.2	22.6	43.5	65.5	73950	45950	2.64
Technology Option i- JK-2020	120	92	14.8	21.2	42.6	59.64	72420	44420	2.58
Technology Option ii- Rasi-113	110	84	18.6	22.4	48.4	66.80	82.280	54280	2.94
Technology Option iii- Arize Tez Gold	115-120	88	20.4	23.6	53.5	70.62	90950	62950	3.25
Technology Option iv- DRH-2	115-120	90.5	14.6	21.2	40.6	58.5	69020	41020	2.46

OFT- 2

1.	Title of On farm Trial	Assessment of locally developed fish feed efficiency on fish growth.
2.	Problem diagnose	Low productivity in fish farming.
3.	Details of technologies selected for assessment	Farmer's practice - Minimum use of rice brokens. Technological option i – Use of rice brokens & mustard oil cake in 1:1 ratio as per age of fish. Technological option ii - Use rice brokens & mustard oil cake in 1:1 ratio as per age of fish + mineral mixture (1% of total feed).
4.	Source of Technology	BAU, Ranchi
5.	Production system and thematic area	
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	Individual contact with farmers and participatory approach.

Thematic area: Resource management

Problem definition: Low productivity in fish farming.

Technology assessed: Assessment

Table:1:Chemical characteristics of water and soil of pond

Parameters	Initial pH of water mean value	Ammonia test of water	Nitrate test of water	Nitrite test of water	Organic carbon content of pond soil
Products					
Farmers practice - stocking of fish with minimum manuring (200kg raw cattle dung kg/ha/yr (rate of stockings= no. of fry/acre=10,000)	6.6	Negative (-ve)	(-ve)	(-ve)	Low yield soil
Technological option i - stocking of fish with minimum manuring and lime application[@of lime=250kg/ha/yr) start from pond treatment upto to the harvest] .	7.2	(-ve)	(-ve)	(-ve)	Low yield soil
Technological option ii - stocking of fish with minimum manuring and lime application[@ of lime=250kg/ha/yr) along with use of poultry litter (5 quintal/ha/yr) start from pond treatment upto to the harvest].	7.4	(-ve)	(-ve)	(-ve)	Low yield soil

Note: i) pH of water was measured with portal pH meter.

ii) Colour of water was measured with through chemical analysis with help of testing kit.

- iii) Ammonia, Nitrate & Nitrite test of water was done through chemical analysis with the help of testing kit.
- iv) Temperature is measured with digital thermometer.
- v) Organic carbon content of soil was measured through chemical analysis with the help of testing kit.

Table:2- Mean value of growth parameters (Total body weight (in g) and total body length (in cm) of fish in 6 months.

Parameters Treatments	No. of fish sample	Total body weight (in g) Mean value	Total body length (in cm) Mean value	Disease found
Farmer's practice - Minimum use of rice broken.	36	37.65	15.77	Yes
Technological option i – Use of rice broken & mustard oil cake in 1:1 ratio as per age of fish.	36	48.35	18.47	No
Technological option ii - Use rice broken & mustard oil cake in 1:1 ratio as per age of fish.+ mineral mixture (1% of total feed)	36	160.70	21.75	No

Table: 3: Economics involved in feed management for fish in six months.

Parameters Technological Option	Total area of pond (in acre)	Total spawn required (in kg)	Total spawn cost (@ Rs.500/kg)	Cost of spawn /acre (in Rs.)	Cost of feed (Rs./acre/day)	Cost of spawn + Cost of feed (in Rs./acre)	Partial harvest (kg/acre)	Gross income (@ Rs. 140/kg)	Net Income (Rs.)
Farmers practice - Minimum use of rice broken	6.9	69	34500	5000	13	5013	190	26600	21587
Technological option i – Use of rice broken and mustard oil cake in 1:1 ratio as per age of fish.	2.9	29	14500	5000	87.75	5087.75	225	31500	26412.25
Technological option ii - Use of rice broken and mustard oil cake in 1:1 ratio as per age of fish and use of mineral mixture (1% of total feed)	3.3	33	16500	5000	100.75	5100.75	390	54600	49499.25

Result: Fish farming is done in villages of Bokaro district in traditional way in which there was no concept of fish feed. It is very important for fish farmer to understand the significance of fish feed particularly from locally developed resource materials and its impact on the growth parameters of fish. First of all, chemical parameters of water and soil of pond (given in table-1) was measured. In the present OFT, in farmers practice, only minimum use of rice kanna powdery (left out of rural rice mill after rice milling) was done.

In T.O.-I, farmers used rice-brokens (called as khudi) and mustard oil cake in 1:1 ration as per age of fish.

In T.O.-II, farmers used rice-brokens (called as khudi) and mustard oil cake in 1:1 ratio as per age of fish with 1% mineral mixture (on the basis of total weight of fish feed)

After 6 month of spawning, growth of fish was measured. In all three options, 36 no. of sample (fish) was measured and it was found that mean total body weight was 37.65, 48.35 g and 160.70 g respectively in farmers practice, T.O.-I and T.O.-II whereas total body length was 15.77cm, 18.47 cm and 21.75 cm respectively. So, it is clear that growth of fish was comparatively best in T.O.-II in which all the three things rice brokens, mustard oil cake and mineral mixture as per growth need of fish. Rice brokens is source of carbohydrate and mustard oil cake is source of proteins and mineral mixture is source of minerals. Regarding economics, net income earning was approximate Rs. 21587, Rs. 26412 and Rs. 49499 respectively in three options i.e in farmers practice, in T.O.-I and in T.O.-II.

OFT-3

1.	Title of On farm Trial	Impact assessment of three different traditional parboiling methods with respect to rice quality.
2.	Problem diagnose	Very –very lengthy, tedious and monotonous process with low recovery and poor quality rice grain.
3.	Details of technologies selected for assessment	<p>Farmer's practice - Use of local parboiling method of paddy grains (Soaking for 1 or 2 days in normal water, open steaming, sundrying, milling)</p> <p>Technological option i – Use of tempering based traditional parboiling method of paddy grains. (Soaking in hot water at 90⁰c for 1 hour, Tempering for 4 hours, open steaming, sundrying, milling)</p> <p>Technological option ii- Used of tempering based traditional parboiling method of paddy grains. (Soaking in hot water at 90⁰c for 1 hour, tempering for 2 hours, steaming, sundrying, milling)</p>
4.	Source of Technology	BAU, Ranchi
5.	Production system and thematic area	
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	Individual contact with farmers and participatory approach.

Thematic area: Resource management

Problem definition: Very –very lengthy, tedious and monotonous process with low recovery and poor quality rice grain.

Technology assessed: Assessment

Table: 1- Technological parameters for all three different parboiling method of paddy grains.

Parameters Treatments	Total paddy grains used (kg)	Kind of soaking water	Soaking temperature (⁰ c)	Soaking time (hour)	Tempering time (hour)	Parboiling time of one pass of (10 kg lot)	Quantity of fuel consumed (kg)	Total fuel cost (Rs.)	Time for sundrying (days)
Farmer's practice - Use of local parboiling method of paddy grains (Soaking in normal water, steaming, sundrying, milling)	40	Normal water	32 ⁰ c(room temp)	17-24	-	45 min.	20	500.00	3-4
Technological option i – Use of tempering based parboiling method of paddy grains. (Soaking in hot water at 90 ⁰ c for 1 hour, Tempering, , steaming, sundrying, milling)	40	Hot water	90 ⁰ c	1	4 hours	15 min.	8	200.00	1
Technological option ii - Used of tempering based parboiling method of paddy grains. (Soaking in hot water at 90 ⁰ c for 1 hour, tempering for 2 hours, steaming, sundrying, milling)	40	Hot water	90 ⁰ c	1	2 hour	20 min.	12	300.00	11/4-11/2

Table:2- Output of all three parboiling method of paddy grains.

Parameters Treatments	Total paddy grains used (kg)	Head rice (kg)	Head rice (%)	Husk (kg)	Husk (%)	Khudi (Broken rice) (g)	Broken grain (%)	Total recovery (kg)	Total recovery (%)	Loss in parboiling process (%)
Farmer's practice - Use of local parboiling method of paddy grains (Soaking in normal water, steaming, sundrying, milling)	40	21.80	54.50	7.740	19.35	620	1.5	30.116	75.40	24.60
Technological option i – Use of tempering based parboiling method of paddy grains. (Soaking in hot water at 90 ⁰ c for 1 hour, Tempering, , steaming, sundrying, milling)	40	24.06	61.15	6.120	15.30	560	1.4	30.740	76.85	23.15
Technological option ii - Used of tempering based parboiling method of paddy grains. (Soaking in hot water at 90 ⁰ c for 1 hour, tempering for 2 hours, steaming, sundrying, milling)	40	22.08	55.20	7.340	18.35	200	0.5	29.620	74.05	25.95

Table:3 Sensory evaluation (score card method) of cooked rice developed from three different parboiling method.

Parameters	Nature of cooked rice	Non adhesiveness of cooked rice	Colour of cooked rice	Texture	Flavour	Taste	Overall acceptability
Treatments							
Farmer's practice - Use of local parboiling method of paddy grains (Soaking in normal water, steaming, sundrying, milling)	Sticky	5.0 (most sticky)	8 (less pure white)	5.75	4.75	5.50	6.25
Technological option i – Use of tempering based parboiling method of paddy grains. (Soaking in hot water at 90 ⁰ c for 1 hour, Tempering, , steaming, sundrying, milling)	Non-adhesive	9.0(most non-adhesive)	7 (light yellow white)	8.75	8.50	8.75	8.75
Technological option ii- Used of tempering based parboiling method of paddy grains. (Soaking in hot water at 90 ⁰ c for 1 hour, tempering for 2 hours, steaming, sundrying, milling)	Non-adhesive	8.0	9 (pure white)	8.25	8.25	7.75	8.00

Table:4Economic involved in all three different parboiling method. (From parboiling to milling)

Parameters	Paddy grains used (kg)	Cost of paddy grains (12 Rs/kg)	Total fuel consumed (kg)	Total fuel cost (Rs.)	Milling cost (3 Rs./kg)	Total cost of processing (Rs.)	Net cost of ricegrains/kg after parboiling process (Rs.)	Market price of parboiled rice (Rs.)	Net profit (/kg rice) (Rs.)	Net profit of rice grain (Rs.)
Treatments										
Farmer's practice - Use of local parboiling method of paddy grains (Soaking in normal water, steaming, sundrying, milling)	40	480	20	500	40x3=120	1100	1100/40=27.5	30	2.50	250
Technological option i – Use of tempering based parboiling method of paddy grains. (Soaking in hot water at 90 ⁰ c for 1 hour, Tempering for 2hours, , steaming, sundrying, milling)	40	480	8	200	40x3=120	800	800/40=20	30	10	1000
Technological option ii- Used of tempering based parboiling method of paddy grains. (Soaking in hot water at 90 ⁰ c for 1 hour, tempering for 4 hours, steaming, sundrying, milling)	40	480	12	300	40x3=120	900	900/40=22.50	30	7.50	750

Result: Parboiling of rice in the villages of Bokaro district was very –very length, tedious and back breaking process along with low recovery of rice. To solve this problem of farm women, an OFT was conducted in which parboiling of rice was done by soaking in warm water at 90⁰c for one hour in place of normal water for 47-24 hours, as in farmers practice. After warm water soaking of paddy grains for one hour at 90⁰c, tempering was done in both T.O.- I and T.O.-II. In

T.O.-I, tempering was done for two hour and in T.O.-II, tempering was done for 4 hours whereas in F.P., tempering was not done, then in all three options, sun drying and milling was done in same way.

In all three option, total 40 kg paddy grains was used, but in T.O.-I, net head rice recovery was 61 percent, whereas in T.O.-II, it was 55 percent and 54 percent respectively. Loss of paddy grains in parboiling process was 23 percent in T.O.-II, 25 percent in T.O.-I & 24 percent in F.P. on the basis of output of all three parboiling process, T.O.-I is best option.

In the findings of sensory evaluation through score card method, the quality of cooked rice both on the basis of adhesiveness, texture, flavor & taste, T.O.-I was found best. Regarding economics, net profit of rice grain per quintal was Rs.1000 in T.O.-I, Rs. 750 in T.O.-II and Rs. 250 in F.P. respectively. By considering all above findings, T.O.-I option wass found best.

OFT-4

1.	Title of On farm Trial	Performance of YVM resistant varieties of ladysfinger under kharif season
2.	Problem diagnose	Low yield of ladysfinger due to severe infestation of Yellow vein mosaic in kharif season.
3.	Details of technologies selected for assessment	Farmers practice - Mahico-10 Technological option i- 7315(JK) Technological option ii - Shakti (Nunhems) Technological option iii - 1001 (NS)
4.	Source of Technology	SAU (Resistant variety should be grown)
5.	Production system and thematic area	Vegetable production system
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	Variety 1001 (NS) should be used for higher yield and low infestation of YVM.
8.	Constraints identified and feedback for research	Some other variety should be tested to find out the real YVM resistant variety.
9.	Process of farmers participation and their reaction	Individual contact with farmers and participatory approach.

Thematic area: Vegetable production system

Problem definition: Low yield of ladys finger due to severe infestation of Yellow vein mosaic in kharif season.

Technology assessed: Assessment

Table:1- Performance of YVM resistant varieties of ladysfinger under kharif season

Technology option	% of damage plant	Fruit length(cm)	Yield(q/ha)	Cost of cultivation (Rs.)	Gross return (Rs.)	Net return	B:C ratio
Farmers practice - Mahico-10	12.32	8.3	86	70400	137600	67200	1.95
Technology Option i- 7315(JK)	7.3	11.8	127	72200	203200	131000	2.81
Technology Option ii- Shakti (Nunhems)	8.6	10.1	118	72200	188800	116600	2.61
Technology Option iii- 1001 (NS)	6.7	12.8	137	72200	219200	147000	3.03

Note: Piece of ladys finger @ Rs. 1600/q

Result: From above finding highest ladys finger yield is obtained in technological option- iii variety 1001 (NS), yield 137 q/ha followed by technological option – i variety 7315 (JK), yield 127 q/ha where as minimum yield (86 q/ha) is obtained in Farmers practice due to high YVM infestation.

OFT- 5

1.	Title of On farm Trial	Evaluation of insecticide for the control of shoot & fruit borer in Okra
2.	Problem diagnose	Low yield and heavy infestation in lady finger.
3.	Details of technologies selected for assessment	Farmers practice – 4-5 spray of Metasystox @ 3-4 ml/lit water at weekly interval at fruiting stage. Technological option i - Seed treatment with Thiamethoxame 3g/kg seed + BT 1ml/lit water 55 DAS. Technological option ii – Seed treatment with Thiamethoxame 3g/kg seed +NSKE 4% 5ml/lit water at 35 DAS. Technological option iii - 2 spray of NSKE 4% 5ml/lit water at 30 and 40 DAS + Emamectin benzoate @ 0.5 ml/ lit water at 55 DAS.
4.	Source of Technology	SHIATS, Allahabad
5.	Production system and thematic area	Vegetable production system
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	Individual contact with farmers and participatory approach.

Thematic area: Vegetable production system

Problem definition: **Low yield and heavy infestation in lady finger.**

Technology assessed: Assessment

Materials and Method - The field experiment was conducted during kharif season of 2016-17 in two villages namely Chargi and Jaruatand of Petarwar block of Bokaro district. The experiment was conducted in randomized block design (RBD) with four treatments i.e **Farmers practice** – 4-5 spray of Metasystox @ 3-4 ml/lit water at weekly interval at fruiting stage, **Technological option i** - Seed treatment with Thiamethoxame 3g/kg seed + BT 1ml/lit water 55 DAS, **Technological option ii** – Seed treatment with Thiamethoxame 3g/kg seed +NSKE 4% 5ml/lit water at 35 DAS, **Technological option iii** - 2 spray of NSKE 4% 5ml/lit water at 30 and 40 DAS + Emamectin benzoate @ 0.5 ml/ lit water at 55 DAS, replicated in 10 farmers field as replication. The crop was sown in the month June 2016 and June 2017 following all Agronomic practices.

Table:1- Evaluation of insecticide for the control of shoot & fruit borer (*Earis vitella Fab.*) in Okra

Technology option	% of shoot infestation	% of fruit infestation		Yield	Gross return (Rs.)	Net return	B:C ratio
		No. basis	Wt. basis				
Farmers practice – 4-5 spray of Metasystox @ 3-4 ml/lit water at weekly interval at fruiting stage.	14.54	28.44	36.34	58.46	128612	57412	0.8
Technology Option i- Seed treatment with Thiamethoxame 3g/kg seed + BT 1ml/lit water 55 DAS.	7.82	21.73	27.32	83.84	18448	112248	1.5
Technology Option ii- Seed treatment with Thiamethoxame 3g/kg seed	6.02	18.65	26.45	86.87	191114	119114	1.6

+NSKE 4% 5ml/lit water at 35 DAS.							
Technology Option iii- 2 spray of NSKE 4% 5ml/lit water at 30 and 40 DAS + Emamectin benzoate @ 0.5 ml/ lit water at 55 DAS.	8.41	23.38	29.26	80.21	176962	103912	1.4

Result: Technological option ii – Seed treatment with Thiamethoxame 3g/kg seed +NSKE 4% 5ml/lit water at 35 DAS found to most effective for control of fruit & shoot borer in Okra. Percentage of shoot & fruit (Nos. & wt.) Infestation is 6.02% & 18.65% and 26.45% is less in this treatment. In this treatment highest yield is 86.87q/ha, net return Rs. 119114/ha and B:C ratio 1.6 were observed.

OFT-6

1.	Title of On farm Trial	Control of damping off disease in tomato crop.
2.	Problem diagnose	High mortality of tomato seedling due to occurrence of damping off disease.
3.	Details of technologies selected for assessment	Farmers practice – 1 – 1.5 kg FYM/m ² + fungicide after disease appearance Mancozeb @ 3-4 g/lit water Technological option i - Soil solarization of seed bed (150-200 micron polythene) + karanj cake @ 400g/m ² Technological option ii – Soil solarization + soil treatment with Trichoderma viridi @ 3.0 g/m ² . Technological option iii - Soil treatment with trichoderma viridi @3.0 g/m ² + seed treatment with Trichoderma viridi @4g/100g seed.
4.	Source of Technology	TNAU
5.	Production system and thematic area	Vegetable production system
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	Individual contact with farmers and participatory approach.

Thematic area: Vegetable production system

Problem definition: **High mortality of tomato seedling due to occurrence of damping off disease.**

Technology assessed: Assessment

Materials and Method - The field experiment was conducted during kharif season of 2016-17 in two villages namely Chergi and Ambadih of Petarwar block of Bokaro district. The experiment was conducted in randomized block design (RBD) with four treatments i.e **Farmers practice – 1** – 1.5 kg FYM/m² + fungicide after disease appearance Mancozeb @ 3-4 g/lit water, **Technological option i** - Soil solarization of seed bed (150-200 micron polythene) + karanj cake @ 400g/m², **Technological option ii** – Soil solarization + soil treatment with Trichoderma viridi @ 3.0 g/m², **Technological option iii** - Soil treatment with trichoderma viridi @3.0 g/m² + seed treatment with Trichoderma viridi @4g/100g seed, replicated in 10 farmers field as replication. The crop was sown in the month June 2016 and June 2017 following all Agronomic practices. Damaged and healthy fruits of individual plots were sorted out and their number and weight were recorded.

Table:1- % damage due to damping off in tomato.

Technology option	% of no. of plant		% of Wt. of plant		Yield (q/ha)	Gross return (Rs.)	Net return	B:C ratio
	Healthy	Damage	Healthy	Damage				
Farmers practice – 1 – 1.5 kg FYM/m ² + fungicide after disease appearance Mancozeb @ 3-4 g/lit water	10.26	10.42	11.21	12.31	93.22	279660	208540	2.9
Technology Option i- Soil solarization of seed bed (150-200 micron polythene) + karanj cake @ 400g/m ²	8.72	7.54	8.51	8.93	136.02	408060	336840	4.7
Technology Option ii- Soil solarization + soil treatment with Trichoderma viridi @ 3.0 g/m ² .	7.63	6.82	7.57	7.82	150.22	450660	379360	5.3
Technology Option iii- Soil treatment with trichoderma viridi @3.0 g/m ² + seed treatment with Trichoderma viridi @4g/100g seed.	6.67	6.34	6.47	6.57	157.42	472260	400860	5.6

Result: Technology Option iii- Soil treatment with trichoderma viridi @3.0 g/m² + seed treatment with Trichoderma viridi @4g/100g seed. May be effective in managing damping off disease in tomato. In this treatment the yield is 157.42q/ha, net return is Rs 400860., B:C ratio is 5.6

OFT- 7

1.	Title of On farm Trial	Assessment of improved backyard composting methods.
2.	Problem diagnose	Low nutrient status of compost due to improper method of composting.
3.	Details of technologies selected for assessment	Farmers practice – Dumping of cow dung and household/field wastes in pits (size unspecified) Technological option i – Dumping of cow dung and household/field wastes mixing with DAP @ 500g/m ² after filling every feet of pit of 2mx1m size. Technological option ii – Dumping of cow dung and household/field wastes mixing with DAP @ 500g/m ² after filling every feet + PSB, Azatobactor and Trichoderma @ one packet each per pit of 2mx1m size.
4.	Source of Technology	BAU, Ranchi
5.	Production system and thematic area	Organic production system
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	Individual contact with farmers and participatory approach.

Thematic area: Organic Production

Problem definition: Production of poor quality compost due to improper preparation method of composting.

Technology assessed: Assessment

Table:1- Assessment of improved backyard composting methods.

Technology option	Duration of composting	Nutrient status				
		PH	O.C.	N %	P	K
Farmers practice – Dumping of cow dung and household/field wastes in pits	120-130	7.2	13.5	0.35	0.72	0.65
Technology Option i- Dumping of cow dung and household/field wastes mixing with DAP @ 500g/m ² after filling every feet of pit of 2mx1m size.	110-120	7.5	21.6	0.75	1.20	0.72
Technology Option ii- Dumping of cow dung and household/field wastes mixing with DAP @ 500g/m ² after filling every feet + PSB, Azatobactor and Trichoderma @ one packet each per pit of 2mx1m size.	90-105	7.8	26.4	1.22	1.42	0.98

OFT-8

1.	Title of On farm Trial	Effect of different dose and application method of phosphorus on yield of zero tilled wheat.
2.	Problem diagnose	Low nutrient use efficiency of phosphorus due to improper fertilizer application method.
3.	Details of technologies selected for assessment	<p>Farmers practice - Fertilizer application through broadcasting method (RDF of NPK , 80:60:20)</p> <p>Technological option i- RDF of (NPK, 80:60:20) Phosphorus applied as DAP through zero tillage machine) + N & K applied by broadcasting.</p> <p>Technological option ii - NPK (80:50:20) Phosphorus applied as DAP through zero tillage machine) + N & K applied by broadcasting.</p> <p>Technological option iii - NPK (80:40:20) Phosphorus applied as DAP through zero tillage machine) + N & K applied by broadcasting.</p>
4.	Source of Technology	CIAE, Bhopal
5.	Production system and thematic area	Crop production and farm machinery
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	Zero tilled wheat cultivation with recommended dose of fertilizer 80:60:20 (phosphorus applied through zero tillage) is recommended for getting higher yield and net return per ha.
8.	Constraints identified and feedback for research	Moisture content should be appropriate level for better performance of zero tilled machine.
9.	Process of farmers participation and their reaction	To show the result of application of phosphorus through zero tillage machine, farmers are encouraged and satisfied to sow the wheat through zero tillage machine.

Thematic area: Crop production and farm machinery

Problem definition: Low nutrient use efficiency of phosphorus due to improper fertilizer application method.

Technology assessed: Assessment

Table: 1 Effect of different dose and application method of phosphorus on yield of zero tilled wheat.

Technology option	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs./ha)	Net Return (Rs./ha)	B:C ratio
Farmers practice - Fertilizer application through broadcasting method (RDF of NPK , 80:60:20)	28.3	24000	50940	26940	2.12
Technological option i- RDF of (NPK, 80:60:20) Phosphorus applied as DAP through zero tillage machine) + N & K applied by broadcasting.	29.7	23500	53460	29960	2.27
Technological option ii - NPK (80:50:20) Phosphorus applied as DAP through zero tillage machine) + N & K applied by broadcasting.	28.5	22900	51300	28400	2.24
Technological option iii - NPK (80:40:20) Phosphorus applied as DAP through zero tillage machine) + N & K applied by broadcasting.	27.08	22300	48744	25444	2.18

Wheat grain = Rs. 18/kg

OFT- 9

1.	Title of On farm Trial	Effect of mulching on water use efficiency and yield of drip irrigated bitter gourd in summer.
2.	Problem diagnose	High infestation of weeds and low water use efficiency.
3.	Details of technologies selected for assessment	Farmers practice - Without mulching Technological option i- Mulch with black colour polythene. Technological option ii - Mulch with silver colour polythene.
4.	Source of Technology	IARI, New Delhi
5.	Production system and thematic area	Water conservation
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	Silver mulching is recommended in drip irrigated summer bitter gourd cultivation due to 25% high yield and net return compare to without mulch drip irrigated summer bitter gourd cultivation.
8.	Constraints identified and feedback for research	Spacing should be increased from 60cm to 90 cm in case of mulching of drip irrigated summer bitter gourd due to large growth of plant and high density.
9.	Process of farmers participation and their reaction	Farmers are happy and satisfied with mulching in drip irrigated summer bitter gourd due to seed control, water saving and high yields. They are also interested to mulch in other vegetable crops.

Thematic area: Water conservation

Problem definition: High infestation of weeds and low water use efficiency.

Technology assessed: Assessment

Table:1 Effect of mulching and its colour on yield of bitter gourd.

Technology option	Wt of fruit per plant (kg)	Water used (cm/ha)	Water use efficiency kg/ha/cm	Yield (q/ha)	Cost of cultivation Rs./ha	Gross income Rs./ha	Net income Rs./ha	B:C ratio
Farmers practice - Without mulching	5.3	18.36	173.2	318	213000	47000	264000	2.24
Technological option i Mulch with black colour polythene.	6.6	12.24	323.5	396	253000	594000	341000	2.35
Technological option ii - Mulch with silver colour polythene.	6.7	12.24	328.4	402	253000	321000	368000	2.45

Cost of bitter gourd= Rs. 15/kg

$$\text{Water use efficiency} = \frac{\text{Yield (kg/ha)}}{\text{Water required (cm)}}$$

OFT- 10

1.	Title of On farm Trial	Evaluation of onion variety.
2.	Problem diagnose	Low productivity and profitability of onion due to poor selection of varieties.
3.	Details of technologies selected for assessment	Farmers practice - Nasik-53 (Mahalaxmi) Technological option i- . Prema (East West) Technological option ii – TopaZ (Rasi)
4.	Source of Technology	East-west, Rasi & Mahalaxmi
5.	Production system and thematic area	Integrated crop management
6.	Performance of the Technology with performance indicators	Given in table
7.	Final recommendation for micro level situation	Topaz variety of onion performed over Nasik -53 and Prema. Highest yield obtained in Topaz followed by Prema. So. Variety Topaz is recommended for micro level situation.
8.	Constraints identified and feedback for research	Timely sowing is required to avoid bolting.
9.	Process of farmers participation and their reaction	Assessment trial conducted at farmers field and farmers are satisfied with the yield of Topaz and Prema.

Thematic area:

Problem definition: Low productivity and profitability of onion due to poor selection of varieties.

Technology assessed: Assessment

Table : 1- Evaluation of onion variety

Technology option	Bulb wt. (g)	Plant Height (cm)	Bulb yield (q/ha)	Cost of cultivation (Rs./ha)	Gross Cost (Rs./ha)	Net return (Rs./ha)	B:C ratio
Farmers practice – Nasik-53 (Mahalaxmi)	32	29	169	55000	135200	80200	2.4
Technology Option i- Prema (East West)	42	36	264	70000	211200	137200	3.02
Technology Option ii- TopaZ (Rasi)	48	39	282	68000	225600	153600	3.32

Note: Sell Price of onion is Rs. 800/q

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during 2017-18

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	
1.	Pigeon pea	ICM	NDA-2 + Line sowing, Intercropping, seed treatment	10	10			48	
2.	Green gram	ICM	IPM 2-3 + Line sowing, Seed treatment + Intercropping	10	10			73	
3.	Horse gram	ICM	Birsa Kulthi 1 + Line sowing, Intercropping+ Sulphur	10	10			45	
4.	Black gram	ICM	Azad 3 + Line sowing + Seed treatment + Intercropping	20	20			50	
	Chick Peaea	ICM	P-256+ Line sowing	15	15			63	
	Field Pea	ICM	Aman+ Line sowing	10	10			50	
5.	Groundnut	ICM	TG 37-A + line sowing, intercropping	30	30			83	
6.	Sesame	ICM	GT-3 + Line sowing, Micronutrient	20	20			32	
	Niger	ICM	Birsa niger-1 + line sowing, micronutrient	20	20			38	
7.	Rapeseed Mustard	ICM	P-30 + micronutrient + pest management	40	40			89	
8.	Linseed	ICM	Garima + micronutrient+ pest management	20	20			44	
	Green garm (Summer)	ICM	IPM 2-3+ Line sowing, Seed treatment + Pest management	10	10			49	Standing

Details of farming situation

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
Groundnut	ICM	TG 37-A + line sowing, intercropping	83	30	15.5	10.2	53	18000	78000	60000	4.3	16000	51000	35000	3.18
Sesame	ICM	GT-3 + Line sowing, Micronutrient + Pest management	32	20	5.4	3.2	22	9500	44000	34500	4.63	7800	25600	17800	3.28
Niger	ICM	Birsa niger-1 + line sowing, micronutrient	38	20	5.7	3.4	23	9200	26000	16800	2.8	7800	17000	9200	2.1
Rapeseed Mustard	ICM	P-30 + micronutrient + pest management	89	40	8.2	4.5	82.2	12500	38400	25900	3.07	9800	21150	11350	2.16
Linseed	ICM	Garima+ micronutrient+ pest management	44	20	5.2	4.0	30	9500	24800	15300	2.61	8200	17200	9000	2.10
Total			286	130											

* 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
Pigeon pea	ICM	NDA-2 + Line sowing, Intercropping, seed treatment	48	10	10.8	7.5	44	15500	59400	43900	3.83	12000	41250	29250	3.44
Green gram	ICM	IPM 2-3 + Line sowing, Seed treatment + Intercropping	73	10	9.8	6.2	36	17500	58800	41300	3.36	15700	37200	21500	2.37
Horse gram	ICM	Birsa Kulthi 1 + Line sowing, Intercropping+ Sulphur	45	10	7.8	4.5	33	13500	39000	25500	2.88	11800	22500	10700	1.9
Black gram	ICM	Azad 3 + Line sowing + Seed treatment +Intercropping	50	20	10.6	6.5	41	17500	63000	45500	3.63	16000	39000	23000	2.4
Chick pea	ICM	P-256+ Line sowing	63	15	10.4	8.5	22.35	19500	67200	47700	3.45	17800	54910	37110	3.08
Field Pea	ICM	Aman+ Line sowing	50	10	11.2	8.6	30.23	16500	54000	37500	3.27	15000	41450	26450	2.76
Green garm (Summer)	ICM	IPM 2-3+ Line sowing, Seed treatment + Pest management	49	10	Standing										
	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**FLD on Milk Processing**

Crop	Thematic area	Name of the technology demonstrated	No. of Farm Women	Yield			Net profit	% increased	B:C ratio
					Demons Ration (Paneer)	Check (Milk)			
Milk	Income generation & Milk processing	Paneer Making	19 (OTH)	Quantity	50	350			
				Total cost	20000	14000	6000	42.85	1.42
				Shelf life (at room temperature)	2 days	4-5 hours			
				Mode of use	For many purpose	Few purpose			
				Comfort of doing business	Very easy	Difficult			

FLD on nutrient management of pond for fish production

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Yield (kg/acre)		% change in yield	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
				Demonstration	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Fish	Nutrient management	Use of raw cattle dung (200 kg/ha/year) and lime @ 250 kg/ha/year and poultry liter @ 500 kg/ha/year. Rate of spawn used= 10000 nos. of fry/acre	8	295	123	139.83	7260	29500	22240	4.06	5160	12300	7140	2.38

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1.	Pigeon pea (NDA-2)	Yield potential is very good but due to long duration crop faced moisture stress at flowering & maturity stage. Crop was heavy infested from wilt and pod borer at flowering and maturity stage, resulted poor yield of crop.
2.	Green gram (IPM 2-3)	Green gram recorded very good yield.
3.	Black gram Azad 3	Black gram variety Sulata is suitable in late condition sowing and yield of this variety is very good.
4.	Horse gram (Birsa Kulthi-1)	Birsa Kulthi-1 recorded very good yield in late condition.
5.	Chick pea (P-256)	Potatiinal yield of Variety P- 256 is very good and farmers like this bold seeded variety. Crop was infested from pod borer and wilting at flowering stage.
6.	Groundnut TG 37-A	No. of pods per plant and no. of kernels per pod is very good and farmers like due to recorded higher yield. Disease and insect pest infestation was very low.
7.	Niger (Birsa Niger-1)	Disease and insect pest attack was very low and recorded very good yield.
8.	Mustard (P-30)	Crop was infested from Aphid and mildew disease and gave potential yield in timely sowing with sufficient irrigation.

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

A. Training (On & Off) Upto March 2018

Type of training	No. of training				Total participants			
	Target (On & Off)	Achievement		Total	Target (On & Off)	Achievement		Total
		On	Off			On	Off	
Practicing farmers/ farm women	95	40	52	92	2500	1164	1444	2608
Rural youth	12	10	-	10	300	302	-	302
Extension functionaries	10	11	-	11	300	278	-	278
Total	117	61	52	113	3100	1744	1444	3188

A) Farmers and farm women (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				
I. Crop Production														
Weed Management														
Resource Conservation Technologies														
Cropping Systems	2	57		57							57			57
Crop Diversification														
Integrated Farming														
Water management														
Seed production	2	46		46				10		10	56			56
Nursery management														
Integrated Crop Management	6	44	97	141		5	5	2	12	14	46	114		160
Fodder production														
Production of organic inputs														
Others, (cultivation of crops)														
II. Horticulture														
a) Vegetable Crops														
Integrated nutrient management														
Water management														
Enterprise development														
Skill development														
Yield increment														
Production of low volume and high value crops	1	20	-	20	-	-	-	13	-	13	33	-		33
Off-season vegetables	1	11	-	11	-	-	-	4	-	4	15	-		15
Nursery raising														
Export potential vegetables														
Grading and standardization														
Protective cultivation (Green Houses, Shade Net etc.)														
Others, if any (Cultivation of Vegetable) ICM	5	-	129	129				35	3	38	35	132		167
Training and Pruning														
Mushroom Production	3	-	56	56					29	29		85		85
b) Fruits														
Layout and Management of Orchards														
Cultivation of Fruit														
Management of young plants/orchards														
Rejuvenation of old orchards														
Export potential fruits														
Micro irrigation systems of orchards														
Plant propagation techniques														
Others, if any(INM)														
c) Ornamental Plants														
Nursery Management														
Management of potted plants														
Export potential of ornamental plants														
Propagation techniques of Ornamental Plants														
Others, if any														
d) Plantation crops														

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			
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	40	300	637	937	7	5	12	113	102	215	420	744	1164

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	2	18	31	49	-	-	-	12	9	21	30	40	70
Bee-keeping													
Integrated farming													
Seed production	1	24	-	24			1				24	-	24
Cultivation practice of moong	1	20	-	20	-	-	-	10	-	10	30	-	30
Production of organic inputs													
Integrated Farming													
Planting material production	1	16	-	16	-	-	-	12	-	12	28	-	28
Vermi-culture	2	30	16	46					12	12	30	28	58
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1	16	-	16	-	-	-	10	-	10	26	-	26
Nursery Management of Horticulture crops													
Layout of mango orchard	1	-	-	-	-	-	-	38	-	38	38	-	38

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			
Care and maintenance of farm machinery and implements	1	24	-	24	-	-	-	-	-	-	24	-	24
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Advance in nutrient management in acid soils	1	24	-	24							24	-	24
Management practices of vegetable crops	1	22	-	22							22	-	22
Use and their of drip irrigation in vegetable crops	1	26	-	26							26	-	26
Low cost water harvesting system	1	30	-	30							30	-	30
Cultivation practice of summer crops	1	26	-	26							26	-	26
Cultivation practice of summer crops	1	32	-	32							32	-	32
TOTAL	11	278		278							278		278

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				
Propagation techniques of Ornamental Plants														
Others, if any														
d) Plantation crops														
Production and Management technology														
Processing and value addition														
Others, if any														
e) Tuber crops														
Production and Management technology														
Processing and value addition														
Others, if any														
f) Spices														
Production and Management technology														
Processing and value addition														
Others, if any														
g) Medicinal and Aromatic Plants														
Nursery management														
Production and management technology														
Post harvest technology and value addition														
Others, if any														
III. Soil Health and Fertility Management														
Soil fertility management														
Soil and Water Conservation														
Integrated Nutrient Management	3	51	-	51	4	3	7	-	18	18	55	21	76	
Production and use of organic inputs														
Management of Problematic soils														
Micro nutrient deficiency in crops														
Nutrient Use Efficiency														
Soil and Water Testing	1	-	-	-	-	-	-	43	-	43	43	-	43	
Others, if any														
IV. Livestock Production and Management														
Dairy Management														
Poultry Management														
Piggery Management														
Rabbit Management														
Disease Management														
Feed management														
Production of quality animal products														
Others, if any Goat farming														
V. Home Science/Women empowerment														
Household food security by kitchen gardening and nutrition gardening	1	-	32	32	-	-	-	-	-	-	-	32	32	

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				
application to fish pond, like nursery, rearing & stocking pond														
Hatchery management and culture of freshwater prawn														
Breeding and culture of ornamental fishes														
Portable plastic carp hatchery														
Pen culture of fish and prawn														
Shrimp farming														
Edible oyster farming														
Pearl culture														
Fish processing and value addition														
Others, if any														
IX. Production of Inputs at site														
Seed Production														
Planting material production														
Bio-agents production														
Bio-pesticides production														
Bio-fertilizer production														
Vermi-compost production														
Organic manures production														
Production of fry and fingerlings														
Production of Bee-colonies and wax sheets														
Small tools and implements														
Production of livestock feed and fodder														
Production of Fish feed														
Others, if any														
X. Capacity Building and Group Dynamics														
Leadership development														
Group dynamics														
Formation and Management of SHGs														
Mobilization of social capital														
Entrepreneurial development of farmers/youths														
WTO and IPR issues														
Others, if any														
XI Agro-forestry														
Production technologies														
Nursery management														
Integrated Farming Systems														
XII. Others (Pl. Specify)														
TOTAL	52	867	181	1048	13	8	21	307	68	375	1187	257	1444	

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

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			
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems	3	72	14	86							72	14	86
Crop Diversification													
Integrated Farming													
Water management													
Seed production	8	166		166				34		34	200		200
Nursery management													
Integrated Crop Management	6	44	97	141		5	5	2	12	14	46	114	160
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
Climate resilient in agriculture	1	31	-	31	-	-	-	-	-	-	31	-	31
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops	1	20	-	20	-	-	-	13	-	13	33	-	33
Off-season vegetables	3	70		70				4		4	74		74
Nursery raising	1	24	-	24	4	-	4	-	-	-	28	-	28
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable) ICM	5	-	129	129				35	3	38	35	132	167
Integrated crop management	3	64	-	64	-	-	-	17	-	17	81	-	81
Training and Pruning													
Mushroom Production	3	-	56	56					29	29		85	85
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													

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													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	88	1167	818	1985	20	13	33	420	170	590	1607	1001	2608

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	2	18	31	49	-	-	-	12	9	21	30	40	70
Bee-keeping													
Integrated farming													
Seed production	1	24	-	24			1				24	-	24
Cultivation practice of moong	1	20	-	20	-	-	-	10	-	10	30	-	30
Production of organic inputs													
Integrated Farming													
Planting material production	1	16	-	16	-	-	-	12	-	12	28	-	28
Vermi-culture	2	30	16	46					12	12	30	28	58
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements	1	16	-	16	-	-	-	10	-	10	26	-	26

3.4. A. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12									362
Kisan Mela	9									18000
Kisan Ghosthi	29									583
Exhibition	8									8000
Film Show	25									800
Method Demonstrations										
Farmers Seminar										
Workshop										
Group meetings										
Lectures delivered as resource persons	12									360
Advisory Services										
Scientific visit to farmers field	160									596
Farmers visit to KVK	1825									1825
Diagnostic visits										
Exposure visits										
Ex-trainees Sammelan										
Soil health Camp										
Animal Health Camp										
Agri mobile clinic										
Soil test campaigns	9									418
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings										
Celebration of important days (specify) Sankalp Se Siddhi Programme on 27-08-2017	1									800
World Soil Health Day (05-12-2017)	1									265
Any Other (Specify)										
Total	2091									32009

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	45
Radio talks	
TV talks	
Popular articles	

Extension Literature	
Other, if any	

3.5 Production and supply of Technological products

Village seed 2016

Crop	variety	Quantity of seed (q)	Value (Rs)	Provided to number of farmers
Paddy	MTU-7029	5000		
	Lalat	4000		
	Navin	500		
	Sahbhagi	500		
	Abhisekh	500		
Green gram	HUM-16	30		
	Pant Mung-5	20		
Pigeon pea	NDA-2	80		
Horse gram	Payur-2	20		
Black gram	WBU-109	30		

KVK farm 2016

Crop	variety	Quantity of seed (q)	Value (Rs)	Provided to number of farmers
Paddy	MTU-7029	43		Provided to 692 farmers of 33 seed villages of Bokaro district in 2017.
	Lalat	45		
	Sahbhagi	22		
Pigeon pea	NDA-2	2		
Grand Total				

KVK, Farm 2017

Crop	variety	Quantity of seed (q)
Paddy	Rajendra Mansuri	35
	Lalat	45
	sahbhagi	25
Niger	BN-1	0.5
	Puja	0.5
Dhaicha	Asam Local	1

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Provided to number of farmers
Vegetable seedlings		2600	2600	4
Cauliflower				
Cabbage				
Tomato				
Brinjal				
Chilli				
Onion				
Others				
Fruits				
Mango	Amrpali	152	6080	
Guava	L-49	78	3120	
Lime				
Papaya				
Banana				
Others				
Ornamental plants				
Medicinal and Aromatic				
Plantation				
Spices				
Turmeric				
Tuber				
Elephant yams				
Fodder crop saplings				
Forest Species				
Others, pl.specify				
Total		2830	11800	

Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers
	Kg		
Bio Fertilisers			
Bio-pesticide			
Bio-fungicide			
Bio Agents			
Others			
Total			

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves				

Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Grand Total				

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

Item	Title	Authors name	Number	Circulation
Extension literature				
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	Jh /kku mRiknu rduhd	Jh mn; dqekj flag Mk- vfuy dqekj]Jh fou; dqekj]Jherh uhuk Hkkjrh	1000	1000
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	ljksa dh mRiknu rduhd	Jh mn; dqekj flag] Mk- vfuy dqekj]Jh fou; dqekj Jherh uhuk Hkkjrh	1000	1000
	puk dh mRiknu rduhd	Jh mn; dqekj flag]Mk- vfuy dqekj]Jh fou; dqekj Jherh uhuk Hkkjrh	1000	1000
	frlh dh mRiknu rduhd	Jh mn; dqekj flag]Mk- vfuy dqekj]Jh fou; dqekj Jherh uhuk Hkkjrh	1000	1000
	yRrj okyh lfCt;ksa dh mUur [ksrh	Jh fou; dqekj] Mk- vfuy dqekj]Jh mn; dqekj flag] Jherh uhuk Hkkjrh	1000	1000
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	vnjd vk/kkfjr fefJr [ksrh	Mk- vfuy dqekj]Jh mn; dqekj flag] Jh fou; dqekj]Jherh uhuk Hkkjrh	1000	1000
TOTAL			10000	10000

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:

S. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Workshop	Zonal Workshop of KVKs	Sri Uday Kumar Singh Scientist (Agronomy-cum- Head)	14-16 April 2017	ICAR- ATARI, Zone-II
2.	International Conference	“Advances in Agricultural and Applied Science for Promoting Food Security”	Er. Vinay Kumar, Scientist (Agril.Engg.)	May 13-15, 2017	Society for Agriculture Innovation & Development, Ranchi, Kathmandu, Nepal
3.	International Conference	“Advances in Agricultural and Applied Science for Promoting Food Security”	Mrs. Neena Bharti, Scientist (Plant Protection)	May 13-15, 2017	Society for Agriculture Innovation & Development, Ranchi, Kathmandu, Nepal
4.	International Conference	“Advances in Agricultural and Applied Science for Promoting Food Security”	Dr. Anil Kumar Scientist (Horticulture)	May 13-15, 2017	Society for Agriculture Innovation & Development, Ranchi, Kathmandu, Nepal
5.	Workshop	Regional Workshop on Skill Development	Er. Vinay Kumar, Scientist (Agril.Engg.)	25 th May 2017	RKM Institute of Culture, Golpur, Kolkata
6.	Workshop	workshop on Soil Testing Kit (Minilab)	Er. Vinay Kumar, Scientist (Agril.Engg.)	12 th August, 2017	WBUAFS, Kolkata
7.	Workshop	Workshop on Seed Hub	Sri Uday Kumar Singh Scientist (Agronomy-cum- Head)	6-8 November 2017	IIPR, Kanpur
8.	National Conference	“National Conference on Promoting & Reinvigorating Agri-Horti, Technological Innovations, PRAGATI-2017”	Er. Vinay Kumar, Scientist (Agril.Engg.)	11-12 November 2017	PRAGATI at Dhanbad, Jharkhand

9.	National Conference	“National Conference on Promoting & Reinvigorating Agri-Horti, Technological Innovations, PRAGATI-2017”	Mrs. Neena Bharti, Scientist (Plant Protection)	11-12 November 2017	PRAGATI at Dhanbad, Jharkhand
10.	National Conference	“National Conference on Promoting & Reinvigorating Agri-Horti, Technological Innovations, PRAGATI-2017”	Dr. Nandana Kumari, Scientist (Home Science)	11-12 November 2017	PRAGATI at Dhanbad, Jharkhand
11.	National Conference	“National Conference on Promoting & Reinvigorating Agri-Horti, Technological Innovations, PRAGATI-2017”	Dr. Anil Kumar Scientist (Horticulture)	11-12 November 2017	PRAGATI at Dhanbad, Jharkhand
12.	Winter School	Advances in ICT in Agriculture Extension.	Dr. Nandana Kumari, Scientist (Home Science)	4-24 Jan. 2018	BAU, Sabour, Bhagalpur, Bihar
13.	National Conference	National Conference On Livelihood and Food Security	Er. Vinay Kumar, Scientist (Agril.Engg.)	27-28 Jan. 2018	Society for Agriculture Innovation & Development, Ranchi at Patna
14.	National Conference	National Conference On Livelihood and Food Security	Mrs. Neena Bharti, Scientist (Plant Protection)	27-28 Jan. 2018	Society for Agriculture Innovation & Development, Ranchi at Patna
15.	National Conference	National Conference On Livelihood and Food Security	Dr. Nandana Kumari, Scientist (Home Science)	27-28 Jan. 2018	Society for Agriculture Innovation & Development, Ranchi at Patna
16.	National Conference	National Conference On Livelihood and Food Security	Dr. Anil Kumar Scientist (Horticulture)	27-28 Jan. 2018	Society for Agriculture Innovation & Development, Ranchi at Patna
17.	Winter school	Winter School on “ New Initiative for Veterinary Extension, ARYA, Farmer First and MGMG”	Dr. Anil Kumar Scientist (Horticulture)	30 October – 19 November 2017	Department of A.H. Extension Education, Bihar Veterinary Collage Patna.
18.	National Conference	“Improving Income of Farmers through Agriculture & Aquaculture through Development Interventions”	Er. Vinay Kumar, Scientist (Agril.Engg.)	05th to 7th January 2018	ICAR-CIFA Bhubaneswar.
19.	Review Meeting	Review meeting on CFLD on oilseed & pulses at to be held from.	Dr. Anil Kumar Scientist (Horticulture)	8-9 January, 2018	ICAR- ATARI, Patna
20.	Workshop	Digital farming using mKRISHI Platforms	Er. Vinay Kumar, Scientist (Agril.Engg.)	7 th February 2018	ICAR- ATARI, Patna
21.	Workshop	Biennial National Conference of KVKs	Sri Uday Kumar Singh Scientist	16-17 March, 2018.	ICAR-IARI, New Delhi

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

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

- 3.9 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)

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

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

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

Sl. No	Name of the Equipment	Qty.
	Flame photo meter	1
	Spectrophoto meter	1
	Incubator	1
	Hot plate	1
	P.H .meter	1
	E/C meter	1
	Distillation unit	1
	Mechanical shaker	1
	Electronic balance	1
	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.	240	240		
Total	240			

- 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

- 3.13 Technology week celebration (23-28 February 2018)

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
Training, Workshop, Kisan Gosthi, Field visit, Farmers Scientist Interaction	12	150	

- 3.14. RAWE programme - is KVK involved? – Not conducted

No of student/ARS trained	No of days stayed

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

Date	Name of the person	Purpose of visit
27-08-2017	Sri Ravindra Kumar Pandey, Honb'le MP, Giridih.	On the occasion of Sankalp Se Siddhi Programme
	Sri Yogendra Prasad, Hon'ble MLA, Gomia, Bokaro	
	Sri Chhatruram Mahto, Ex MLA, Gomia	
	Sri Mahima Pat Rey, Honb'le DC, Bokaro	
	Sri Digeshwar Tiwary, DDC, Bokaro	
	Sri Sandeep Kumar, Director DRDA, Bokaro	
	Sri Laxman Nayak, Jila Bees Sutri Upadhyax	
	Smt Manju Devi Jain, Jila Parishad Sadsya.	
	Sri Rajeev Kr. Mishra, District Agriculture Officer, Bokaro	
	Sri Navrajan Tirkey, District Fishery Officer Bokaro	
	Sri Surendra Katiyar, District Dairy Development Officer, Bokaro	
	Sri Ram Narayan Rajak, District Soil Survey & Conservation officer, Bokaro	
10-09-2017	Dr. K.P. Wasnik, Additional Commissioner (Extension), Ministry of Agriculture & Farmer's Wekfare, Govt. of India.	Observation of Seed Hub, CFLD, Training and other mandatory activities of KVK Bokaro and programmes of State Govt.
05-12-2017	Sri Dilip Mazumdar, LDM, Bokaro	Celebration of World Soil Health Day
	Sri Ram Narayan Rajak, District Soil Conservation Officer, Bokaro	Celebration of World Soil Health Day
25-02-2018	Dr. P. Koushal, Honb'le VC, BAU, Ranchi	Monitoring of KVK activities.
	Dr. J. Oraon, DEE, BAU, Ranchi	Monitoring of KVK activities.

4.0 IMPACT

4.1. 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	115	35%	175000/ha	240000/ha
Mushroom	48	35%	-	2000/month
Vermi compost	32	25%	-	1500/month
Badi making of urd + pumpkin	25	40%	2500/month	4000/month
Fish feed management (Use of rice broken + mustard cake)	35	40%	25000/year	45000/year
Management of shoot borer in brinjal	40	70%	103000/ha	139025/ha
Management of predator in kusmi lac cultivation in	35	40%	9928/ha	36232/ha

ber tree				
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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	4000 ha
Sweet corn Var- Sugar- 75	10 ha
Sweet potato (RDF)	100 ha
Innovative model of vegetable production (Cauliflower + ginger + spinach)	40 ha
Reaper for paddy harvesting	125 ha
Drumseeder	60 ha
Drip irrigation system	2500 unit
Zero Tillage machine	10 ha

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

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	
Intervention of KVK with quantitative data support:	
Time line 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

5.0 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	ATMA Bokaro	Joint diagnostic survey, joint implementation, participation in meeting, conducting training programme & demonstration programme
9	District Soil Survey & Soil Conservation Office, Bokaro	Joint implementation, participation in meeting, conducting training programme & demonstration programme
10	Line Dept. State Govt.	Joint diagnostic survey, joint implementation, participation in meeting, conducting training programme & demonstration programme
11	NABARD/COMMERCIAL BANK	Participation in meeting, conducting training programme
12	LDM, Bokaro	Participation in meeting, conducting training programme
13	R.K. Mission Ranchi	Participation in meeting, conducting training programme & demonstration programme
14	CURRS, Hazaribagh	Participation in meeting, conducting training programme & demonstration programme
	JSLPS, Sanjivini Project, Bokaro	Participation in meeting, conducting training programme & demonstration programme
15	NGO (Pradan, Support, Raj Development SHADOW, Sanjeevni etc)	Joint diagnostic survey, participation in meeting, conducting training programme & demonstration programme

5.2. List of special programmes undertaken during 2017-18 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.)
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7.									
	Total								

6.2 Performance of instructional farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Paddy	26 July to 6 August 2017	2 nd week of December 2017	1.5	Rajendra Mansuri	F/S	40	35000	160000	
	3-7 August 2017	1 st week of December 2017	2	Lalat	F/S	45	42000	180000	
	3-7 August 2017	1 st week of December 2017	1	Sahbhagi	F/S	25	18000	100000	
Niger			0.2	BN-1	F/S	0.5	1500	4950	
			0.2	Puja	F/S	0.5	1500	4950	
Dhaicha			0.2	Asam Local		1	1000	4500	

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)
March 2018	90	9	
Total :			

(For whole of the year)

6.6 Utilization of staff quarters - Not available

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK Main Account	SBI	Petarwar	
KVK Revolving account	SBI	Petarwar	

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

Item	Released by ICAR		Total	Expenditure		Total	Unspent balance as on -
	Kharif	Rabi		Kharif	Rabi		
			5.58063	4.55	3.40	7.95	(-)2.36937

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

Item	Released by ICAR		Total	Expenditure		Total	Unspent balance as on 1 st April 2018
	Kharif	Rabi		Kharif	Rabi		
			3.05			6.37500	(-)3.32500

7.4 Utilization of funds under FLD on Maize (*Rs. In Lakh*) - NA

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2017
	Kharif	Rabi	Kharif	Rabi	
TOTAL					

7.5 Utilization of KVK funds during the year 2017-18 (Not audited)

S. 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				
TOTAL (A)				
B. Non-Recurring Contingencies				
1				
2				
3				
4				
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				

7.6. 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)
2014-16				
2015-17				
2016-18				

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.

7.7 Details of marketing channels created for the SHGs

7.8. Special programme on Food and Nutrition :

7.9. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With department line	With ATMA	Both
Rice fallow	5	Kharif		ATMA	
Block level Kisan Mela	9	Rabi		ATMA	
Prakhand Krishi Jagrukta Abhiyan	9	Kharif		ATMA	
Visit of Joint Secretary					
Visit of Dr. Man Singh, Joint Director, DRD, GOI, Patna	1	Rabi		ATMA	
Visit of Dr. K.P. Wasnik, Additional	1	Kharif		ATMA	

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9.4.b Information in uploading KVK Portal by KVKs during 2017-18

<i>Sr. No.</i>	<i>Name of item/ events/ component</i>	<i>Uploading status (Yes/No)</i>	<i>No. uploaded</i>	<i>Remarks, if any</i>
1	KVK Profile			
2	Employee details	Yes		
3	Post	Yes		
4	Finance	No		
5	Soil Health Card	Yes		
6	Appliance	Yes		
7	Crops	Yes		
8	Resources	Yes		
9	Fish	No		
10	Past events	Yes		
11	Future/ upcoming events	Yes		
12	Facilities available at KVKs	Yes		
13	Package and practices			
14	Crop	Yes		
15	Livestock	No		
16	Fishery	No		
17	Horticulture	Yes		
18	CFLD on Pulses			
19	2016-17	Yes		
20	2017-18	No		
21	CFLD Oilseeds			
22	2016-17	Yes		
23	2017-18	No		

9.5 Observation of Swacha Bharat Programme

Date of Observation	Activities undertaken
5 th September 2017 to October 2 nd 2017	Cleaning of KVK premises, farm, public and tourist places, Swachhta awareness programme conducted at KVK & villages.

9.6 Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with Seema Suraksha Bal (BSF)- NA

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
RKM Ashram School, Kolbendi, Chas	9-10-2017	Agriculture	Black Board, Chart
RKM Ashram School, Kolbendi, Chas	04-03-2018	Agriculture	Black Board, Chart

9.9. Details of Kharif and Rabi Sammelan (Information should be provided in two separate tables – one for Kharif and another for Rabi Sammelan)

Name of the state	Name of district/KVK	Date on which conducted	Number of participants		Name of public representative	Details of Technology Demonstrated and other programmes organized
			Farmers	Others		

9.10. Details of Pradhan Mantri Fasal Bima Yojana programme organized

Name of the state	Name of district/KVK	Date on which conducted	Number of participants		Name of public representative	Details of awareness created and other programmes organized
			Farmers	Others		

9.11. 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

9.12. Report on Citizens' Client Charter (attending the requests seeking guidance on agricultural technology and technology products)

Sl. No.	Services/Transaction	Process	Service Standard	No. of such services attended by KVKs and ATICs during the year	No. of such services pending with KVK/ATIC beyond 30 days

1.	Guidance on Agricultural technology and technology products	Personal contact by the Service Sectors with the responsible person of KVK/ATIC	Same day	153	Nil
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9.13. Community Radio Station - **Not established**

Date of establishment:

Amount of fund received year wise :

Source of fund:

Achievements:

Sr. no	Community Radio Stations (CRS)	No of programmes in the year	Total broadcast hrs in a month	Please specify details of the broadcasts
A.	<p>Agricultural broadcasts</p> <ul style="list-style-type: none"> • Talks/interviews/discussions with experts, PG students/ and farmers on Agricultural technologies • Agro-climatic conditions, weather and marketing advisory • Phone-in programme of interface with experts • Phone-in programme with interface of progressive/innovative farmers • Success stories of progressive farmers • Success stories in FLD/OFT/ Trainings /Extension activities • Women in agriculture programme • Discussions on current issues in agriculture and allied sectors. • KVK happenings • Agricultural University professors. • Any other(please specify) 			
B.	<p>Community development broadcasts</p> <p>Please specify the programmes like rural development, educational, health, environment, public service broadcasts, sports etc.</p>			

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

9.15 HRD programmes organized by the KVK

Training programme/ Seminar/ Symposia/ Workshop etc attended	Duration	Name of the participants	Designation	Organizer of the training Programme

9.16. Revenue generation:

SL.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Lodging & Institutional charge	86250.00	DHO. Bokaro

9.17. Resource Generation:

SL.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
	Mali training	Training	DHO, BOKARO	3.99800	
	Single Window Centre	To provide all information's and facilities to the farmers	DAO, Bokaro	15.00	STL

9. 18. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
2007	BAU,Ranchi	Rainfall data is being recorded

10. Details of TSP Project

Name of the village adopted under TSP	Block	Population of the village			ST Population of the village			Percentage of ST population to total population
		M	F	T	M	F	T	

Physical achievements under TSP during 2016-17

Programmes	Physical achievements 2016-17
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)	
Others (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	

Fund received under TSP in 2016-17:----- lakh

11. PROGRESS REPORT OF NICRA KVK (Technology Demonstration component) 2016-17 (Applicable for KVKs identified under NICRA)

Natural Resource Management

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted	Remarks

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted	Remarks

Livestock and fisheries

Name of intervention undertaken	Number of animal covered	Number of units	Area (ha)	No of farmers covered / benefitted	Remarks

Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted	Remarks

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Capacity building

Thematic area	No. of Courses	No. of beneficiaries		
		Males	Females	Total

Extension activities

Thematic area	No. of activities	No. of beneficiaries		
		Males	Females	Total

Detailed report should be provided in the circulated Performa

12. Information on NFDB Funded Capacity building programme during 2016-17

Sl. No.	Name of capacity building training programme	Duration (days)	Date of programme	Fund (Rs.) sanctioned by NFDB, Hyderabad	No. of Farmers trained	Remarks, if any
1						
2						
Total						

13. National Initiative on Fodder Technology Demonstration (NIFTD)
(Applicable for KVKs identified under NIFTD)

Name of the fodder crop	Date of sowing	Area (ha)	No. of farmers involved	Demonstration Yield (q/ha)			Check Yield			% increase
				H	L	A	H	L	A	

Economic of Demonstration

Name of the fodder crop	Demonstration Cost/Rs/ha			Check Cost (Rs/ha)		
	Gross cost	Gross return	BC ratio	Gross cost	Gross return	BC ratio

14. Awards/Recognition received by the KVK

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose
1.	Consolation prize during Agrotek Kisan Mela-2018	2018	BAU, Ranchi	-	

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Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
.	Innovative Farmers Award	Sri Bharat Murmu	2018	BAU, Ranchi	-	In the field of drip irrigated vegetable producer

15. Any significant achievement of the KVK with facts and figures as well as quality photograph
16. List of 5000 farmers with mobile number and Aadhar card number (only soft copy to be enclosed)
17. Number of commodity based organizations/ farmers' cooperative society formed during last one year
(Details of the group/society may be indicated)
18. Any other programme organized by KVK not covered above
- ✓ District level Kisan Mela organized at 8 block of Bokaro district during February – March 2018 in which 6000 farmers participated.
 - ✓ Kisan Mahila Diwas celebrated on 15th October 2017 at KVK Bokaro.
 - ✓ KVK Bokaro celebrated World Soil Day on 5th December 2017 in which 265 nos. farmers participated in this programme.

CONTENT

SL. No.	PARTICULARS	PAGE NO.
1.	General information about KVK	1-9
2.	Details of district	9-15
3.	Technical Achievement	15
4.	OFT	16-31
5.	FLD	32-37
6.	Training	38-55
7.	Extension Activity	57
8.	Production and supply of technological products	58-59
9.	Literature developed/Published	60
10.	Details of HRD Programme	61-62
11.	Success stories	59-60
12.	List of VIP visitors	63

13.	Impact	65	81
14.	Linkage	66	
15.	Other Information	72-76	



***KRISHI VIGYAN KENDRA
BOKARO***



ANNUAL REPORT

(April 2017 – March 2018)

Zonal Workshop of KVKs

Dated: 26-27 May 2017

Venue: OUAT, Bhubaneswar

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