



KRISHI VIGYAN KENDRA

Sahibganj – 816 109
(BIRSA AGRICULTURAL UNIVERSITY)



1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Sahibganj	09430112886	-	sahibganjkvk@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
Birsa Agricultural University, Kanke, Ranchi, 834 006 (Jharkhand)	0651-2450500	0651- 2450850	vc@bauranchi.org deebau@gmail.com

1.3. Name of the Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Amrit Kumar Jha	Jay Prakash Colony, Sakrugarh, Sahibganj	09430112886	akjhabau@rediffmail.com

1.4. Year of sanction of KVK: F.No. 6-4/2003-AE-I dt. 30/07/2004

1.5. Staff Position (as on 1st April, 2018)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining/ if vacant since when	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Head and Senior Scientist	Vacant	-	-	-	-	-	-
2	Scientist	Dr. A.K. Jha	I/C Head and Scientist	Soil Science	Rs.15600-39100/- Rs.24,850/-	19-07-2004	Permanent	Others
3	Scientist	Dr. B.K. Mehta	Scientist	Agril. Engg.	Rs.15600-39100/- Rs.24,850/-	20-07-2004	Permanent	Others
4	Scientist	Dr. Maya Kumari	Scientist	Home Science	Rs.15600-39100/- Rs.24,850/-	09-08-2004	Permanent	OBC
5	Scientist	Dr. Rakesh Ranjan	Scientist	Horticulture	Rs.15600-39100/- Rs.24,850/-	15-03-2005	Permanent	OBC
6	Scientist	Vacant						
7	Scientist	Vacant						
8	Scientist	Vacant						
9	Farm Manager	Mr. K. Chatterjee	Farm Manager	Agronomy	Rs.9300-34800/- Rs.16,900/-	20-07-2004	Permanent	Others
10	Computer Programmer	Mr. M. Kumar	Computer Assistant	BA (Hons) DCA	Rs.9300-34800/- Rs.15,500/-	22-07-2004	Permanent	OBC
11	Accountant / Superintendent	Mr. Bhagwan Sah			Rs.11,000/- (Fixed)		Temporary	OBC
12	Stenographer	Mr. S. Kumar			Rs. 9,000/- (Fixed)		Temporary	Others
13	Driver	Vacant						
14	Driver	Vacant						
15	Supporting staff	Mr. Rakesh K Jha			Rs. 7,000/- (Fixed)		Temporary	Others
16	Supporting staff	Mr. Sant L. Mandal			Rs. 7,000/- (Fixed)		Temporary	OBC

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	0.00
3.	Under Crops	6.78
4.	Orchard/Agro-forestry	0.40
5.	Mother Plant Nursery	1.00
6.	Technological Park	0.40
7.	Meteorological Observatory	0.02
8.	Ponds	0.80
	Total	10.40

Total area should be matched with breakup

1.7. Infrastructure Development:**A) Buildings and others**

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Under use or not*	Source of funding
1.	Administrative Building					✓		Under use	ICAR
2.	Farmers Hostel				✓				ICAR
3.	Staff Quarters (6)				✓				ICAR
4.	Piggery unit	✓							ICAR
5	Fencing								ICAR
6	Rain Water harvesting structure								ICAR
7	Threshing floor					✓		Under use	ICAR
8	Farm godown					✓		Under use	ICAR
9.	Dairy unit	✓							ICAR
10.	Poultry unit	✓							ICAR
11.	Goatary unit	✓							ICAR
12.	Mushroom Lab				✓				ICAR
13.	Mushroom production unit	✓							ICAR
14.	Shade house	✓							ICAR
15.	Soil test Lab	✓							ICAR
16	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 Model – Bolero Mahindra make	2005	486584.00	10,245 km	Running Condition
Tractor Massey Fargusan Make	2006	500000.00	124 hr	Running Condition
Tractor Eicher Make	2014	600000.00	4 hr	Running Condition
Tractor Eicher Make	2014	600000.00	4 hr	Running Condition
Motorcycle Model Glamour, Hero Make	2016	60000.00	2542 km	Running Condition
Motorcycle Model Glamour, Hero Make	2016	60000.00	1126 km	Running Condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs. In Lakh)	Present status	Source of fund
a. Lab equipment				
Mini Soil Testing Kit	2016	0.75	Working	ICAR
Mini Soil Testing Kit	2017	0.96	Working	ICAR
b. Farm machinery				
c. AV Aids				
Computer and Accessories	2007	1.25	Working	ICAR
Laser Printer	2007	0.20	Working	ICAR
Fax	2007	0.15	Not working	ICAR
Xerox machine	2007	0.75	Not working	ICAR
Stabilizer	2007	0.18	Working	ICAR
LCD Projector, Screen, UPS & Laser Pointer	2009	0.94	Working	ICAR
Digital Camera(Sony) 6 Megapixel	2007	0.165	Not working	ICAR
Printer Mode-Xerox Phaser 3117	2012	0.055	Working	ICAR
Sony Digital Camera 14.1 megapixel	2012	0.061	Working	ICAR
Ink jet Colour Printer	2012	0.137	Working	NABARD
Computer and Accessories	2012	0.357	Working	NABARD
Laser Printer	2012	0.188	Working	NABARD
Computer and Accessories	2007	1.25	Working	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Seed cum fertilizer drill	2007	18200.00	Not working	ICAR
Seed drill	2007	18500.00	Not working	ICAR
Rotavator	2007	88585.00	Not working	ICAR
Grass cutter	2007	38500.00	Not working	ICAR
Cultivator	2006	14200.00	Working	ICAR
Land leveler	2006	8080.00	Not working	ICAR
Disc Plough	2007	26995.00	Working	ICAR
MB Plough	2007	26993.00	Working	ICAR
Trailer	2006	76500.00	Working	ICAR

Offset disc harrow	2006	28020.00	Not working	ICAR
Power sprayer	2007	48500.00	Not working	ICAR
Case wheel nut-bolt type	2007	5250.00	Working	ICAR
Line Maker	2012	-	Working	Soil Conservation, Sahibganj
Cono weeder	2012	-	Working	Soil Conservation, Sahibganj
Manual sprayer, Plastic barrei, Brass Barrel	2012	-	Working	Soil Conservation, Sahibganj
Rocking sprayer High Jet Pump	2012	-	Working	Soil Conservation, Sahibganj
Battery Operated Sprayer	2012	-	Working	Soil Conservation, Sahibganj
Fertilizer Broadcaster/Duster	2012	-	Working	Soil Conservation, Sahibganj
Power Sprayer	2012	-	Working	Soil Conservation, Sahibganj
Pumpset SHP with Sprinkler system	2012	-	Working	Soil Conservation, Sahibganj

1.8. Details SAC meeting* conducted in the year (24th February 2017)

S.N.	Salient Recommendations	Action Taken
1	Training should be conducted in the field of repair and maintenance of farm implements.	Four training programmes two for practicing farmers and two for rural youth were organized on repair and maintenance of farm implements where 120 participants participated.
2	Training of rural youth should be emphasized on entrepreneurship development particularly in the field of mushroom production, bee keeping, seed villages etc. Feedback of these trainings must be generated.	Six training programmes for 180 rural youth were organized for entrepreneurship development. Three programmes were conducted on bee keeping and two programmes were conducted each on mushroom production and seed village.
3	Training of farm women engaged in livestock maintenance should be conducted.	Due to unavailability of Scientist (AH), training for farm women engaged in livestock maintenance could not be conducted.
4	Training and front line demonstration on fodder crops should be conducted.	Four training programmes for 133 farmers were organized on fodder production techniques. FLDs on fodder crops will be undertaken during 2018-19.
5	FLDs on vaccination of livestock may be taken initially.	Due to unavailability of Scientist (AH), FLDs on vaccination of livestock could not be conducted.
6	FLDs should be conducted on crop diversification especially on high value vegetable crops.	Front line demonstration on turmeric cv Rajendra Sonia were conducted.
7	On Farm Trial should also be formulated for prominent vegetables crops of the district.	Two On Farm Trials on plant protection measures of brinjal and chilli were planned and conducted during 2017-18.
8	An OFT on control of different weed mass in rice should be formulated with the consultation of Scientist (Weed Control)	OFT on "Weed management in transplanted rice" were planned and conducted.

	BAU, Ranchi.	
9	Planting material production for different fruit crops available at Mother Plant Nursery should be initiated.	Due to unavailability of Scientist (Horticulture), planting material production could not be started.
10	KVK should also work in the field of medicinal plants.	Production of some medicinal plants at KVK, Farm will be started in kharif 2018-19
11	Mushroom spawn seed production should be initiated in KVK in smaller scale.	Due to unavailability of equipment, mushroom spawn seed production could not be started.

Attach a copy of SAC proceedings along with list of participants (Enclosed as Annexure I)

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

Sl. no.	Item	Information
1	Major Farming system/enterprise	
2	Agro-climatic Zone	
3	Agro ecological situation	
4	Soil type	
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	
6	Mean yearly temperature, rainfall, humidity of the district	
7	Production of major livestock products like milk, egg, meat etc.	

2a.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1.	Paddy – Wheat
2.	Paddy – Fallow
3.	Paddy – Mustard / Linseed / Lentil
4.	Sugarcane – Sugarcane
5.	Maize – Maize
6.	Maize – Vegetables
7.	Maize – Black gram
8.	Maize-Wheat
9.	Cow pea + Bajra/Maize – Fallow (Hill agril.)

2a.2 Description of Agro-climatic Zone

S. No	Agro-climatic Zone	Characteristics
1	Zone IV Central and North Eastern Plateau	This zone is characterized by humid to sub-humid tropical monsoon type of climate. The district receives an annual rainfall of 1500 mm and most of the rain occurs during the rainy season. During winter it becomes cool and record average temperature of 15 ⁰ C but during summer temperature ranges from 30 ⁰ C to 40 ⁰ C.

2a.3 Agro Ecological Situations

S. No	Agro ecological situation	Characteristics
1.	AES – 1	Alluvial Soil Irrigated Condition
2.	AES – 2	Black Soil Irrigated Condition
3.	AES – 3	Black Soil Rainfed Condition
4.	AES – 4	Red Lateritic soil

2a.4 Soil types

S. N	Soil type	Characteristics	Area in ha
1.	Entisols	Coarse loamy, mixed, hyperthermic Typic Endoaquents Fine loamy, mixed, hyperthermic Typic Ustifluvents Fine silty, mixed, hyperthermic Typic Ustifluvents Coarse loamy, mixed, hyperthermic Typic Ustifluvents Coarse loamy, mixed, hyperthermic Aquic Ustifluvents	16800
2.	Inceptisols	Fine silty, mixed, hyperthermic Typic Haplustepts Fine, mixed, hyperthermic Aerice Endoaquepts Fine silty, mixed, hyperthermic Typic Haplustepts Fine, mixed, hyperthermic Aerice Endoaquepts Fine loamy, mixed, hyperthermic Typic Haplustepts Fine, mixed, hyperthermic Aerice Endoaquepts Fine loamy, mixed, hyperthermic Typic Haplustepts Fine, mixed, hyperthermic Vertic Haplustepts Clayey-skeletal, mixed, hyperthermic Typic Haplustepts Fine, mixed, hyperthermic Vertic Haplustepts	58720
3.	Alfisols	Fine, mixed, hyperthermic Aerice Endoaqualfs Fine, mixed, hyperthermic Typic Haplustalfs Fine, mixed, hyperthermic Typic Endoaqualfs Fine, mixed, hyperthermic Typic Haplustalfs Fine, mixed, hyperthermic Vertic Endoaqualfs Fine, mixed, hyperthermic Typic Haplustalfs Loamy-skeletal, mixed, hyperthermic Lithic Rhodustalfs Fine, mixed, hyperthermic Typic Haplustalfs Fine loamy, mixed, hyperthermic Typic Paleustalfs	66080
4.	Vertisols	Fine, mixed, hyperthermic Udic Haplusterts	5760

2a.5 Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (t)	Productivity (q/ha)
1.	Paddy	39908	12668	31.74
2.	Maize	11070	15240	11.40
3.	Wheat	11725	20026	17.08
4.	Gram	7972	7549	9.47
5.	Pigeon pea	5885	2613	4.44
6.	Black gram	8355	6834	8.18
7.	Green gram	535	2167	4.05
8.	Lentil	3250	1463	4.50
9.	Peas	1377	771	5.60
10.	Mustard	13080	6710	5.13
11.	Sesame	106	38	3.60
12.	Linseed	2732	669	2.45

2a.6 Mean yearly temperature, rainfall and humidity

Month	Rainfall (mm)	Temperature °C		Relative Humidity (%)
		Maximum	Minimum	
April'2017	67.6	34.8	28.0	
May'2017	157.6	35.5	29.5	
June'2017	151.6	36.2	27.1	
July'2017	408.4	33.2	26.1	
August'2017	300.2	34.0	26.9	
September'2017	231.4	34.7	26.4	
October'2017	117.2	34.1	26.0	
November'2017	-	30.1	23.0	
December'2017	4.4	26.6	20.6	
January'2018	-	20.4	11.9	
February'2018	-	27.9	19.4	
March'2018	13.8	33.1	21.4	

2a.7 Production and productivity of livestock, poultry, fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	2799	-	-
<i>Indigenous</i>	283367	-	-
Buffalo	63912	-	-
Sheep			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	3497	-	-
Goats	182756	-	-
Pigs			
<i>Crossbred</i>	-	-	-
<i>Indigenous</i>	65342	-	-
Rabbits			
Poultry			
Hen		-	-
<i>Desi</i>	156325	-	-
<i>Improved</i>		-	-
Duck		-	-
Turkey and others		-	-

Category	Area	Production	Productivity
Fish	560.20 ha	6600 MT	11.78
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

2.b. Details of operational area / villages (2017-18)

Sl.No.	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Sahibganj	Kodarjanna	Wheat, Sugarcane	Low yield of wheat due to lack of quality seed	Seed Village
		Talbanna	Wheat, Chickpea, Black gram	Pod borer problem in chickpea	IPM
		Sakari	Maize, Black gram	Low yield	INM and IPM
2.	Borio	Paharpur	Paddy	Low yield	Introduction of improved variety
		Telo	Paddy, Pigeon pea, Mustard	Pod borer in pigeon pea	Integrated Pest Management
		Jirul	Paddy, Wheat, Mustard	Low yield of mustard	Integrated Nutrient Management
		Rakso	Barbatti, Bajra, Maize	Low yield	Integrated Nutrient Management
3.	Rajmahal	Parariya	Paddy, Vegetables	Low yield	Integrated Nutrient Management, Introduction of Hybrid, Seed Production
		Paparjoriya	Paddy	Low yield	SRI technique
		Dalahi	Paddy, wheat	Low yield	Integrated Nutrient Management
4.	Taljhari	Bhatbhanga	Paddy	Low yield	INM and IPM
		Brindaban	Paddy, Wheat	Low yield	INM and IPM
		Gangatia	Barbatti, Bajra, Maize	Low yield	Integrated Nutrient Management
5.	Barhait	Dumariya	Dolichos bean	Low yield due to pod borer	IPM
		Bhognadih	Paddy, Wheat	Low yield	INM and IPM
6.	Udhawa	Piyarpur	Vegetables	Low yield due to insect pest	IPM and introduction of resistant variety
		Katahalbari	Paddy, Wheat	Low yield	INM and IPM
7.	Barharwa	Sonakud	Pigeon pea	Low yield	Seed Village
		Pathna	Paddy, Wheat, Mustard	Low yield	INM and Introduction of improved variety, Seed Village of paddy
		Bataiel	Paddy, Wheat, Mustard	Low yield	INM and Introduction of improved variety, Seed Village of paddy
		Mayur cola	Paddy	Low yield	SRI technique

8.	Mandro	Kendua	Vegetable	Problems of insect pest	IPM
		Karamtola	Paddy, Pigeon pea	Low yield	Introduction of improved variety
9.	Pathna	Kesrol	Green gram	Low yield	Introduction of HYV
		Chandola	Paddy, Pigeon pea, Mustard	Low yield	Introduction of improved variety

2. c. Details of village adoption programme:

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

Name of village	Block	Action taken for development
Lalbandh	Rajmahal	<ul style="list-style-type: none"> • Production of rice seed through SRI technique • Production of vermicompost and vermiwash
Brindaban	Taljhari	<ul style="list-style-type: none"> • Mushroom production • Promotion of high density orchard
Dumariya	Barheit	<ul style="list-style-type: none"> • Promotion of flower cultivation • Promotion of tuber crop cultivation

2. d. Sansad Adarsh Gram Yojana

- i) Name of the village under Sansad Adarsha Gram Yojana: **Piyarpur, Panchayat – Piyarpur, Udhwa.**
- ii) Contribution of KVK in the programme:
 - **Base Line Survey,**
 - **Off Campus Training (2 nos.),**
 - **On Campus Training (1 nos,)**

2.1 Priority thrust areas

S. No	Thrust area
1.	Sustainable crop production through integrated crop, nutrient and pest management
2.	Adoption of suitable soil conservation measures and rain water harvesting.
3.	Village seed production programme
4.	Entrepreneurship through dairy, goatery, poultry and mushroom production and value addition of agricultural produce.

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
7	7	50	50	12	8	180	212

Training				Extension activities			
Number of Courses		Number of Participants		Number of activities		Number of participants	
Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
73	81	2190	2557	100	210	5000	6874

Seed production (q)		Planting material (Nos.)	
Target	Achievement	Target	Achievement
200	170	10,000	10,000

3.1 Achievements on technologies assessed and refined

OFT-1

1.	Title of On farm Trial	Nutrient Management in transplanted rice
2.	Problem diagnosed	Low yield of rice due to imbalanced application of chemical fertilizers
3.	Details of technologies selected for assessment/refinement	<p>Integration of different sources of plant nutrients viz. inorganic, organic and biofertilizers</p> <p>Treatment Details: Farmer's Practice: Application of NP @ 60-25 kg/ha Tech. Opt. 1: Recommended dose of fertilizer as per soil test value</p> <p>Tech. Opt. 2: 75% Recommended dose of fertilizer + BGA @ 10 kg/ha + Azospirillum @ 4 kg/ha.</p>
4.	Source of Technology	Birsa Agricultural University, Ranchi
5.	Production system and thematic area	Rice – Wheat System Integrated Nutrient Management
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	Application of 75% Recommended dose of fertilizer along with BGA @ 10kg/ha and Azospirillum @ 4 kg/ha is beneficial in terms of yield BC ratio as well as soil health.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Integrated Nutrient Management

Problem definition: **Low yield of rice due to imbalanced application of chemical fertilizers**

Technology assessed: **Integration of different sources of plant nutrients viz. inorganic, organic and biofertilizers**

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	10	270.2				34.1	30,500/-	54,560/-	24,060/-	1.78
Tech. Opt. 1	10	308.5				39.2	32,100/-	62,720/-	30,620/-	1.95
Tech. Opt. 2	10	312.2				41.5	30,800/-	66,400/-	35,600/-	2.15

Results: Application of 75% Recommended dose of fertilizer along with BGA @ 10kg/ha and Azospirillum @ 4 kg/ha is beneficial in terms of yield BC ratio as well as soil health.

OFT-2

1.	Title of On farm Trial	Weed Management in transplanted rice
2.	Problem diagnosed	Yield loss of rice to the extent of 30 to 45% due to weed infestation as well as high cost of cultivation due to manual weeding
3.	Details of technologies selected for assessment/refinement	<p>Chemical control of different types of weed viz. grassy, sedges, broad leaf etc. of transplanted rice</p> <p>Treatment Details:</p> <p>Farmer's Practice: Hand weeding</p> <p>Tech. Opt. 1: Application of Pyrazosulfuron ethyl 10% WP @ 150 g/ha at 3 to 7 DAT (Pre Emergence).</p> <p>Tech. Opt. 2: Application of Bispyribac sodium 10% SL @ 25 g a.i. per ha at 15 DAT (Early Post Emergence).</p>
4.	Source of Technology	Birsa Agricultural University, Ranchi
5.	Production system and thematic area	<p>Rice – Wheat System</p> <p>Weed Management</p>
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	Application of Bispyribac sodium 10% SL @ 25 g a. i. per ha at 15 DAT gave better weed control and resulted in higher yield of rice.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Weed Management

Problem definition: Yield loss of rice to the extent of 30 to 45% due to weed infestation as well as high cost of cultivation due to manual weeding

Technology assessed: Chemical control of different types of weed viz. grassy, sedges, broad leaf etc. of transplanted rice

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	265.5				33.7	30,500/-	53,920/-	23,420/-	1.77
Tech. Opt. 1	7	300.3				37.1	29,200/-	59,360/-	30,160/-	2.03
Tech. Opt. 2	7	313.8				38.4	29,400/-	61,440/-	32,040/-	2.09

Results: Application of Bispyribac sodium 10% SL @ 25 g a. i. per ha at 15 DAT gave better weed control and resulted in higher yield of rice.

OFT-3

1.	Title of On Farm Trial	Impact of field preparation equipment on productivity of rice
2.	Problem diagnosed	Low yield of rice due to inadequate puddling (land preparation prior to transplanting)
3.	Details of technologies selected for assessment/refinement	<p>Summer ploughing followed by land preparation by cultivator (one time) and rotavator</p> <p>Treatment Details:</p> <p>Farmer's Practice: Puddling by tractor operated cultivator 3-4 times prior to transplanting. Tech. Opt. 1: Puddling by cultivator (one time) + Rotavator prior to transplanting. Tech. Opt. 2: Puddling by Rotavator prior to transplanting.</p>
4.	Source of Technology	Rajendra Agricultural University, Pusa, Samastipur
5.	Production system and thematic area	Rice – Wheat System Operation of farm machinery and implement
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	Puddling by cultivator one time followed by rotavator prior to transplanting performed better as compared to puddling by cultivator or rotavator alone.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Operation of Farm Machinery and Implement

Problem definition: **Low yield of rice due to inadequate puddling (land preparation prior to transplanting)**

Technology assessed: **Summer ploughing followed by land preparation by cultivator (one time) and rotavator**

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7	265.5				33.9	30,500/-	54,240/-	23,740/-	1.78
Tech. Opt. 1	7	285.4				36.8	30,500/-	58,880/-	28,380/-	1.93
Tech. Opt. 2	7	280.2				35.4	30,500/-	56,640/-	26,140/-	1.86

Results: **Puddling by cultivator one time followed by rotavator prior to transplanting performed better as compared to puddling by cultivator or rotavator alone.**

OFT-4

1.	Title of On Farm Trial	Effect of control measures of fruit and shoot borer in brinjal in rabi season.
2.	Problem diagnosed	Low productivity and profitability in brinjal due to attack of fruit and shoot borer.
3.	Details of technologies selected for assessment/refinement	<p>Use physical, chemical and biological methods of pest control.</p> <p>Treatment Details:</p> <p>Farmer's Practice: Cypermethrin @ 1 ml per lit after appearance of infestation.</p> <p>Tech. Opt. 1: Flubendamide 480 SC @ 1 ml per 5 lit water at 30 DAT + Cartap hydrochloride @ 1 g per lit at 50 DAT.</p> <p>Tech. Opt. 2: Nursery bed treatment with trichoderma @ 2.5 g/m² + Spray of Azadirachtin 0.03 per cent at 15 days interval starting from one month after transplanting.</p> <p>Tech. Opt. 3: Application of neem cake @ 250 kg/ha at 30 DAT + Pheromone trap @ 12 nos/ha</p>
4.	Source of Technology	State Agricultural University
5.	Production system and thematic area	Maize – Brinjal System Pest Management
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	Application of Flubendamide 480 SC @ 1 ml per 5 lit water at 30 DAT followed by Cartap hydrochloride @ 1 g per lit at 50 DAT resulted in reduced incidence of fruit and shoot borer as well as higher yield and B:C ration as compared to farmers practice and other technological options.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Pest Management

Problem definition: Low productivity and profitability in brinjal due to attack of fruit and shoot borer.

Technology assessed: Use physical, chemical and biological methods of pest control.

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7				41	89	43,200/-	97,900/-	54,700/-	2.2
Tech. Opt. 1	7				18	135	45,000/-	1,48,000/-	1,03,000/-	3.2
Tech. Opt. 2	7				29	115	44,000/-	1,26,500/-	82,500/-	2.8
Tech. Opt. 3	7				25	120	47,600/-	1,32,000/-	84,400/-	2.7

Results: Application of Flubendamide 480 SC @ 1 ml per 5 lit water at 30 DAT followed by Cartap hydrochloride @ 1 g per lit at 50 DAT resulted in reduced incidence of fruit and shoot borer as well as higher yield and B:C ration as compared to farmers practice and other technological options.

OFT-5

1.	Title of On farm Trial	Management of leaf curl disease of chilli
2.	Problem diagnosed	Low productivity and profitability in chilli due to leaf curl disease
3.	Details of technologies selected for assessment/refinement	Integrated pest management to control leaf curl disease of chilli Treatment Details: Farmer's Practice: Occasional spray of rogor @ 2 ml per lit after appearance. Tech. Opt. 1: Covering nursery bed with nylon mesh/straw + Spray of NSKE 5% at 10 days interval in nursery + Raising two rows of maize around the main field as barrier crop. Tech. Opt. 2: Spray of Metasystox @ 1 ml/lit water at 10 days interval in nursery + Spray of Imidacloprid @ 2 ml / 5 lit of water at 15 days interval till 15-20 days before harvest.
4.	Source of Technology	IARI, New Delhi
5.	Production system and thematic area	Maize – Vegetable System Pest Management
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	Spray of Metasystox @ 1 ml/lit water at 10 days interval in nursery followed by spray of Imidacloprid @ 2 ml / 5 lit of water at 15 days interval till 15-20 days before harvest resulted in reducing incidence of leaf curl disease of chilli as compared to other treatments.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Pest Management

Problem definition: **Low productivity and profitability in chilli due to leaf curl disease**

Technology assessed: **Integrated pest management to control leaf curl disease of chilli**

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	7				37	97	57,000/-	1,45,500/-	88,500/-	2.5
Tech. Opt. 1	7				19	113	61,000/-	1,69,500/-	1,08,500/-	2.7
Tech. Opt. 2	7				7	122	65,000/-	1,83,000/-	1,18,000/-	2.8

Results: Spray of Metasystox @ 1 ml/lit water at 10 days interval in nursery followed by spray of Imidacloprid @ 2 ml / 5 lit of water at 15 days interval till 15-20 days before harvest resulted in reducing incidence of leaf curl disease of chilli as compared to other treatments.

OFT-6

1.	Title of On farm Trial	Assessment of suitable variety of Rajma for Sahibganj district.
2.	Problem diagnosed	Poor yield and income due to lack of knowledge about the better performing variety.
3.	Details of technologies selected for assessment/refinement	Assessment of different varieties of Rajma to test their performance in Sahibganj. Treatment Details: Farmer's Practice: Swarn Priya Tech. Opt. 1: VL Rajma 125 Tech. Opt. 2: Malviy Rajma 15 Tech. Opt. 3: Swarn Lata
4.	Source of Technology	ICAR Institutes
5.	Production system and thematic area	Rice – Pulse System Varietal Evaluation
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	Swarn Lata performed better in terms of yield and B:C ratio as compared to rest of the varieties of Rajma tested.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Varietal Evaluation

Problem definition: **Poor yield and income due to lack of knowledge about the better performing variety.**

Technology assessed: **Assessment of different varieties of Rajma to test their performance in Sahibganj.**

Table:

Technology option	No. of trials	Yield component			Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP	5					15	38,000/-	82,500/-	44,500/-	2.17
Tech. Opt. 1	5					18	38,000/-	99,000/-	61,000/-	2.60
Tech. Opt. 2	5					21	38,000/-	1,15,500/-	77,500/-	3.00
Tech. Opt. 3	5					20	38,000/-	1,10,000/-	72,000/-	2.89

Results: Swarn Lata performed better in terms of yield and B:C ratio as compared to rest of the varieties of Rajma tested.

OFT-7

1.	Title of On farm Trial	Assessment of improved backyard composting methods
2.	Problem diagnosed	Unscientific method of composting
3.	Details of technologies selected for assessment/refinement	<p>Minimization of loss of nutrients during process of composting and nutrient enrichment in compost</p> <p>Treatment Details:</p> <p>Farmer's Practice: Dumping of animal dung and household or field wastes in unspecified heaps.</p> <p>Tech. Opt. 1: Dumping of animal dung and household or field wastes mixing with DAP @ 500g per m² after filling every feet of pit of 2m x 1m x 1m size.</p> <p>Tech. Opt. 2: Dumping of animal dung and household or field wastes mixing with DAP @ 500g per m² after filling every feet + PSB + Azotobacter + Trichoderma @ one packet each per pit of 2m x 1m x 1m size.</p>
4.	Source of Technology	Birsa Agricultural University, Ranchi
5.	Production system and thematic area	
6.	Performance of the Technology with performance indicators	
7.	Final recommendation for micro level situation	Dumping of animal dung and household or field wastes mixing with DAP @ 500g per m² after filling every feet + PSB + Azotobacter + Trichoderma @ one packet each per pit of 2m x 1m x 1m size performed better in terms of duration of composting as well as nutrient content of compost.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

Thematic area: Method of Composting

Problem definition: **Unscientific method of composting**

Technology assessed: **Minimization of loss of nutrients during process of composting and nutrient enrichment in compost**

Table:

Technology Option	No. of Trial	Duration of composting	Nutrient Content of Compost (%)			
			OC	N	P	K
FP	7	122	8.6	0.17	0.33	0.92
Tech. Opt. 1	7	91	27.1	0.78	1.11	1.42
Tech. Opt. 2	7	77	32.4	0.82	1.20	1.62

Results: **Dumping of animal dung and household or field wastes mixing with DAP @ 500g per m² after filling every feet + PSB + Azotobacter + Trichoderma @ one packet each per pit of 2m x 1m x 1m size performed better in terms of duration of composting as well as nutrient content of compost.**

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.	Mustard	ICM	Seed	5.0	5.0	14	10	24	
2.	Pigeon pea	ICM	Seed	5.0	5.0	12	9	21	
3.	Green gram	ICM	Seed	5.0	5.0	18	12	30	
4.	Black gram	ICM	Seed	5.0	5.0	10	18	28	
5.	Chick pea	ICM	Seed	5.0	5.0	10	8	18	
6.	Paddy	ICM	Seed	10.0	10.0	28	-	28	
7.	Ragi	ICM	Seed	5.0	5.0	31	-	31	
8.	Wheat	ICM	Seed	10.0	10.0	22	10	32	
	Total			50.0	50.0	145	67	212	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P ₂ O ₅	K ₂ O					
Mustard	Rabi	Irrigated	Sandy Loam				Maize	17/10/2017	20/02/2018	39	2
Pigeon pea	Kharif	Rainfed	Sandy Loam				Fallow	06/06/2017	15/03/2018	1192	50
Green gram	Kharif	Rainfed	Sandy Loam				Fallow	10/07/2017	02/11/2017	917	37
Black gram	Kharif	Rainfed	Sandy Loam				Fallow	21/07/2017	10/11/2017	785	30
Chick pea	Rabi	Irrigated	Sandy Loam				Paddy	10/11/2017	20/03/2018	4.4	1
Paddy	Kharif	Rainfed	Sandy Loam				Fallow	15/07/2017	27/10/2017	843	33
Ragi	Kharif	Rainfed	Sandy Loam				Fallow	25/06/2017	04/11/2017	1029	42
Wheat	Rabi	Irrigated	Sandy Loam				Paddy	20/11/2017	25/03/2018	4.4	1

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
Mustard	ICM	Seed, Pusa Mahek	24	5.0	10.5	6.5	61	20,500/-	35,175/-	14,675/-	1.71	17,000/-	21,775/-	4,775/-	1.28

* 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	Seed Malviya 13	21	5.0	11.0	7.0	57	25,500/-	50,875/-	25,375/-	1.99	23,000/-	32,375/-	9,375/-	1.40
Green gram	ICM	Seed Pusa Ratna	30	5.0	7.6	5.5	38	22,885/-	36,865/-	13,980/-	1.61	21,750/-	27,190/-	5,440/-	1.25
Black gram	ICM	Seed Pant Urad 31	28	5.0	7.8	6.1	28	21,800/-	37,530/-	15,730/-	1.72	19,800/-	29,938/-	10,138/-	1.51
Chick pea	ICM	Seed GNG 1581	18	5.0	13.5	10.0	35	28,000/-	59,400/-	31,400/-	2.12	25,000/-	44,000/-	19,000/-	1.76

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% 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
Paddy	ICM	Seed Sahbhagi	28	10	41.2	36.8	12	33,540/-	57,850/-	24,310/-	1.72	32,500/-	52,250/-	19,750/-	1.61
Ragi	ICM	Seed A404	31	5	23.2	19.0	22	23,650/-	41,725/-	18,075/-	1.76	20,200/-	31,150/-	10,950/-	1.54
Wheat	ICM	Seed Pusa Basant	32	10	35.0	30.5	15	33,000/-	53,375/-	20,375/-	1.61	32,000/-	46,513/-	14,513/-	1.45

Livestock

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

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

** BCR= GROSS RETURN/GROSS COST

Fisheries

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

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

** BCR= GROSS RETURN/GROSS COST

Other enterprises

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

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit)					
					Demonstration	Check											

* 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

Technical Feedback on the demonstrated technologies

S. No	Crop	Feed Back
1.	Mustard	Pusa Mahek gave 61% higher yield as well as higher BC ratio.
2.	Pigeon pea	Malviya 13 yielded 57% higher than local check.
3.	Green gram	Pusa Ratna performed well in stress condition and yielded 38% higher.
4.	Black gram	Pant Urad 31 gave 28% higher yield than local check.
5.	Chick pea	GNG 1581 resulted in 35% higher yield as well as higher BC ratio.
6.	Paddy	Sahbhagi gave 12% higher yield than local check.
7.	Ragi	A 404 resulted in 22% higher yield as well as higher BC ratio.
8.	Wheat	Pusa Basant gave 15% higher yield as compared to local check.

Extension and Training activities under FLD

SL.No	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days		11	654	
2.	Farmers Training		10	372	
3.	Media coverage		14		
4.	Training for extension functionaries		2	62	

Performance of the demonstration under CFLD on Pulses and Oilseeds during Kharif 2016 and Rabi 2017-18

Oilseed

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1	Sesame	Kala Til	2.20	80	135	280	RT 346 Line Sowing Sulphur	25	10 ha	3.78	3.1	3.47	16% above	36%	14%
2	Niger	Local	4.7	20	39	462	BN 3 Line Sowing Sulphur	56	20 ha	6.5	5.9	6.15	26% above	12% above	16%
3	Mustard	Varuna	5.0	175 kg more	183	1250	Pusa Mahak Sulphur	125	50 ha	13.0	7.5	8.5	161% above	24% above	20%
4	Black gram	Local	6.5	150	275	850	PU 31 Biofertilizer	34	10 ha	10.5	7.9	9.5	19% above	3% above	21%
5	Pigeon pea	Chaiti Lahar	6.0	156 more	500	1400	Birsa Arhar 1 NDA 2 Biofertilizer	62	20 ha	13.0	9.0	10.5	136% above	40%	22%
6	Chick pea	Desi	8.0	80	213	1100	P372 Biofertilizer	28	10 ha	13.8	13.0	13.2	50% above	30% above	27%
7	Lentil	Desi	4.0	50	67	1400	PL 7 Biofertilizer	27	10 ha	14.0	11.0	12.0	166% above	156% above	45%
8	Green gram (Summer)	Desi	5.0	75	275	850	IPM 2-3 Biofertilizer	32	10 ha	12.5	9.5	10.0	74% above	29% above	37%

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	RT 346 Line Sowing, Sulphur	9,500/-	13,200/-	3,700/-	1.38	12,000/-	20,820/-	8,820/-	1.72
2	BN 3 Line Sowing, Sulphur	13,500/-	21,150/-	7,650/-	1.56	15,000/-	27,675/-	12,675/-	1.84
3	Pusa Mahek Sulphur	15,000/-	16,750/-	1,750/-	1.11	19,000/-	28,475/-	9,475/-	1.49
4	PU 31 Biofertilizer	21,000/-	32,500/-	11,500/-	1.54	22,000/-	47,500/-	25,500/-	2.15
5	Birsa Arhar 1, NDA 2, Biofertilizer	20,000/-	27,750/-	7,750/-	1.38	24,000/-	48,562/-	24,562/-	2.02
6	P 372, Biofertilizer	20,000/-	35,200/-	15,200/-	1.76	23,000/-	58,080/-	35,080/-	2.50
7.	PL 7, Biofertilizer	15,000/-	17,600/-	2,600/-	1.17	20,000/-	52,800/-	32,800/-	2.64
8.	IPM 2-3 Biofertilizer	22,000/-	31,525/-	9,525/-	1.43	25,000/-	48,500/-	23,500/-	1.94

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)
1	Sesame RT 346 Line Sowing	347	70 – 75 % of the total produce	60/- per kg	10 – 15 %	Nil	Livelihood	13
2	Niger BN 3 Line Sowing	615	85 – 90 % of the total produce	45/- per kg	10 %	Nil	Livelihood	11
3	Mustard Pusa Mahek Sulphur	850	90 % of the total produce	35/- per kg	10 %	Nil	Livelihood	10
4	Black gram PU 31 and Biofertilizer	950	65 % of total produce	42/- per kg	15 %	Nil	Livelihood	21
5	Pigeon pea Birsar Arhar 1, NDA 2 and Biofertilizer	1050	85 % of total produce	55/- per kg	15 %	Nil	Livelihood	14
6	Chick pea P 372 Biofertilizer	1320	80 % of total produce	44/- per kg	20 %	Nil	Livelihood	15
7	Lentil PL 7 Biofertilizer	1200	85 % of total produce	44/- per kg	15%	Nil	Livelihood	12
8	Green gram IPM 2-3 Biofertilizer	1000	80 % of total produce	48/- per kg	20%	Nil	Livelihood	20

D. Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
1	Sesame RT 346 Line Sowing	Variety suitable for farming system	Seed colour and higher number of seed per pod	Good	Nil	Yes	
2	Niger BN 3 Line Sowing	Variety suitable for farming system	Higher oil content and yield	Good	Nil	Yes	
3	Mustard Pusa Mahek Sulphur	Variety suitable for farming system	Higher yield, bold seed and high oil content	Yes	Nil	Yes	
4	Black gram PU 31 and Biofertilizer	Variety suitable for farming system	Bold Seed and higher number of seed per pod	Yes	Nil	Yes	
5	Pigeon pea Birsa Arhar 1, NDA 2 and Biofertilizer	Variety suitable for farming system	Bold seed	Yes	Nil	Yes	
6	Chick pea P 372 Biofertilizer	Variety suitable for farming system	Bold seed	Yes	Nil	Yes	
7	Lentil PL 7 Biofertilizer	Variety suitable for farming system	Bold seed	Yes	Nil	Yes	
8	Green gram IPM 2-3 Biofertilizer	Variety suitable for farming system	Bold seed	Yes	Nil	Yes	

E. Specific Characteristics of Technology and Performance

Crop	Specific Characteristics	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Sesame	White seed and oil content 50%	Minimized yield gap	57% higher than local	Desirable seed size and quality
Niger	Bold seed and oil content 42%	Minimized yield gap	31% higher than local	Desirable seed size and oil content
Mustard	High yielding variety and higher oil percentage	Minimized yield gap to the tune of 20% of potential yield	70% higher than local	Satisfied with yield
Black gram	High yielding, Resistance to YMV, Bold Seed	Minimized yield gap to the tune of 23 per cent of potential yield	Yielded 46 per cent higher as compared to local check	Desirable seed size and quality
Pigeon pea	High yielding, Bold Seed	Minimized yield gap to the tune of 22 per cent of potential yield	Yielded 51 per cent higher as compared to local check	Satisfied with seed size and crop yield
Chick pea	High yielding, Bold Seed	Minimized yield gap to the tune of 27 per cent of potential yield	Yielded 65 per cent higher as compared to local check	Satisfied with seed size and crop yield
Lentil	High yielding, Bold Seed	Minimized yield gap to the tune of 45 per cent of potential yield	Yielded 166 per cent higher as compared to district average	Desirable seed size and quality
Green gram (Summer)	High yielding and resistance to YMV	Minimized yield gap to the tune of 37 per cent of potential yield	Yielded 174 per cent higher as compared to existing yield	Satisfied with yield

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date	Place of activity	Number of farmer attended
1. Crop: Sesame	Farmers Training	Date: 21/06/2017	Place: Suilidanga, Barharwa	28
	Farmers Training	Date: 24/06/2017	Place: Chasgama, Borio	32
	Field Day	Date: 19/09/2017	Place: Suilidanga, Barharwa	42
	Field Day	Date: 20/09/2017	Place: Chasgama, Borio	38

Sl. No.	Extension Activities organized	Date	Place of activity	Number of farmer attended
2. Crop: Niger	Farmers Training	Date: 01/08/2017	Place: Piyarpur, Udhwa	35
	Farmers Training	Date: 02/08/2017	Place: Murlisimaldhab, Rajmahal	36
	Field Day	Date: 23/10/2017	Place: Piyarpur, Udhwa	44
	Field Day	Date: 24/10/2017	Place: Murlisimaldhab, Rajmahal	48

Sl. No.	Extension Activities organized	Date	Place of activity	Number of farmer attended
3. Crop: Mustard	Farmers Training	Date: 3/10/2017	Place: Telo, Borio	35
	Farmers Training	Date: 5/10/2017	Place: Haripur, Rajmahal	46
	Farmers Training	Date: 7/10/2017	Place: Jobo Nishinta, Rajmahal	42
	Farmers Training	Date: 09/10/2017	Place: Darlaghat	55

Sl. No.	Extension Activities organized	Date	Place of activity	Number of farmer attended
4. Crop: Black gram	Farmers Training	Date: 12/06/2017	Place: Rai Bazar, Rajmahal	44
	Farmers Training	Date: 13/06/2017	Place: Piyarpur, Udhwa	41
	Field Day	Date: 04/09/2017	Place: Rai Bazar, Rajmahal	65
	Field Day	Date: 05/09/2017	Place: Piyarpur, Udhwa	56

Sl. No.	Extension Activities organized	Date	Place of activity	Number of farmer attended
5. Crop: Pigeon pea	Farmers Training	Date: 14/06/2017	Place: Chapujan, Barharwa	55
	Farmers Training	Date: 17/06/2016	Place: Chapujan, Barharwa	65
	Field Day	Date: 25/10/2017	Place: Chapujan, Barharwa	71
	Field Day	Date: 16/12/2017	Place: Chapujan, Barharwa	58

Sl. No.	Extension Activities organized	Date	Place of activity	Number of farmer attended
6. Crop: Chickpea	Farmers Training	Date: 11/10/2017	Place: Bhimpara, Barharwa	38
	Farmers Training	Date: 13/10/2017	Place: Bhimpara, Barharwa	36

Sl. No.	Extension Activities organized	Date	Place of activity	Number of farmer attended
7. Crop: Lentil	Farmers Training	Date:12/10/2017	Place: Siulidanga, Barharwa	41
	Farmers Training	Date:14/10/2017	Place:Bataiel, Barharwa	37

Sl. No.	Extension Activities organized	Date	Place of activity	Number of farmer attended
8. Crop: Green gram	Farmers Training	Date: 10/02/2018	Place: Kazigaon	28
	Farmers Training	Date: 15/02/2018	Place: Digghi	31

Details of budget utilization

Crop	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Sesame	i) Critical input	45,000/-	45,000/-	Nil
	ii) TA/DA/POL etc. for monitoring	5,000/-	5,000/-	Nil
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	50,000/-	50,000/-	Nil

Crop	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Niger	i) Critical input	90,000/-	90,000/-	Nil
	ii) TA/DA/POL etc. for monitoring	10,000/-	10,000/-	Nil
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	1,00,000/-	1,00,000/-	Nil

Crop	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Mustard	i) Critical input	2,70,000/-	2,70,000/-	Nil
	ii) TA/DA/POL etc. for monitoring	30,000/-	30,000/-	Nil
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	3,00,000/-	3,00,000/-	Nil

Crop	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Black gram	i) Critical input	67,500/-	67,500/-	Nil
	ii) TA/DA/POL etc. for monitoring	7,500/-	7,500/-	Nil
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	75,000/-	75,000/-	Nil

Crop	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Pigeon pea	i) Critical input	1,35,000/-	1,35,000/-	Nil
	ii) TA/DA/POL etc. for monitoring	15,000/-	15,000/-	Nil
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	1,50,000/-	1,50,000/-	Nil

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Chick pea	i) Critical input	67,500/-	67,500/-	Nil
	ii) TA/DA/POL etc. for monitoring	7,500/-	7,500/-	Nil
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	75,000/-	75,000/-	Nil

Crop	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Lentil	i) Critical input	67,500/-	67,500/-	Nil
	ii) TA/DA/POL etc. for monitoring	7,500/-	7,500/-	Nil
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	75,000/-	75,000/-	Nil

Crop	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Green gram	i) Critical input	67,500/-	67,500/-	Nil
	ii) TA/DA/POL etc. for monitoring	7,500/-	7,500/-	Nil
	iii) Extension Activities (Field day)			
	iv) Publication of literature			
	Total	75,000/-	75,000/-	Nil

List of Farmer under CFLD: (Crop wise list of farmers are enclosed as Annexure III)

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				
Shrimp farming														
Pearl culture														
Cold water fisheries														
Fish harvest and processing technology														
Fry and fingerling rearing														
Small scale processing														
Post Harvest Technology														
Tailoring and Stitching														
Rural Crafts														
Total	16	48	19	67	57	21	78	285	50	335	390	90	480	

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Productivity enhancement in field crops														
Value addition														
Integrated Pest Management														
Integrated Nutrient management	1	8	3	11	2	0	2	12	5	17	22	8	30	
Rejuvenation of old orchards														
Protected cultivation technology														
Formation and Management of SHGs														
Group Dynamics and farmers organization														
Information networking among farmers														
Capacity building for ICT application														
Care and maintenance of farm machinery and implements														
WTO and IPR issues														
Management in farm animals														
Livestock feed and fodder production														
Household food security														
Women and Child care														
Low cost and nutrient efficient diet designing														
Production and use of organic inputs														
Gender mainstreaming through SHGs														
Post Harvest Technology	1	9	3	12	0	0	0	11	5	16	20	8	28	
Seed Production	2	20	7	27	0	0	0	26	9	35	46	16	62	
Soil Water Conservation	1	16	0	16	2	0	2	14	0	14	32	0	32	
Soil Water Testing	1	8	3	11	0	0	0	12	5	17	20	8	28	
Mushroom Production	1	12	2	14	0	0	0	15	2	17	27	4	31	
TOTAL	7	73	18	91	4	0	4	90	26	116	167	44	211	

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				
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	3	17	14	31	7	5	12	6	52	58	30	81	111	
Soil and Water Conservation														
Integrated Nutrient Management	1	6	9	15	6	0	6	11	0	11	23	9	32	
Production and use of organic inputs														
Management of Problematic soils														
Micro nutrient deficiency in crops														
Nutrient Use Efficiency														
Soil and Water Testing	3	41	15	56	14	6	20	43	8	51	98	29	127	
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														
Design and development of low/minimum cost diet														
Designing and development for high nutrient efficiency diet	1	0	0	0	0	10	10	0	30	30	0	40	40	
Minimization of nutrient loss in processing														
Gender mainstreaming through SHGs														
Storage loss minimization techniques	1	0	0	0	0	14	14	0	22	22	0	36	36	
Enterprise development (Mushroom)	2	0	0	0	0	21	21	0	60	60	0	81	81	
Value addition														
Income generation activities for empowerment of rural Women														
Location specific drudgery reduction technologies														
Rural Crafts														
Capacity building														
Women and child care	1	0	0	0	0	7	7	0	30	30	0	37	37	

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				
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														
Post Harvest Technology	1	9	3	12	0	0	0	11	5	16	20	8	28	
Seed Production	2	20	7	27	0	0	0	26	9	35	46	16	62	
Soil Water Conservation	1	16	0	16	2	0	2	14	0	14	32	0	32	
Soil Water Testing	1	8	3	11	0	0	0	12	5	17	20	8	28	
Mushroom Production	1	12	2	14	0	0	0	15	2	17	27	4	31	
TOTAL	7	73	18	91	4	0	4	90	26	116	167	44	211	

Please furnish the details of training programmes as Annexure in the proforma given below: (Training details in specified format is enclosed as Annexure II)

H) Vocational training programmes for Rural Youth

Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed elsewhere
				M	F	T	Type of units	Number of units	Number of persons employed	
Rice	Enterprenurship development	Seed production techniques for rice	5	30	-	30				
Pigeon pea	Enterprenurship development	Seed production techniques for pigeon pea	5	30	-	30				
Vermicompost	Enterprenurship development	Method of vermicompost production	5	30	-	30				
Vermicompost	Enterprenurship development	Method of vermicompost production	5	30	-	30				
Vermicompost	Enterprenurship development	Method of vermicompost production	5	-	30	30				
Honey bee	Enterprenurship development	Beekeeping	5	30	-	30				
Honey bee	Enterprenurship development	Beekeeping	5	30	-	30				
Honey bee	Enterprenurship development	Beekeeping	5	30	-	30				
Mushroom	Enterprenurship development	Commercial mushroom production techniques	5	-	30	30				
Mushroom	Enterprenurship development	Commercial mushroom production techniques	5	-	30	30				
		Total	50	210	90	300				

*training title should specify the major technology /skill transferred

I) Sponsored Training Programmes

Title	Dur.	Clt	Male			Female			Total			Total	Spon. Agency
			Oth.	SC	ST	Oth.	SC	ST	Oth.	SC	ST		
Integrated Farming	3	PF	18	4	8	0	0	0	18	4	8	30	ATMA, SBG
Integrated Farming	3	PF	0	0	0	20	5	5	20	5	5	30	ATMA, SBG
Integrated Farming	3	PF	0	0	0	15	7	8	15	7	8	30	ATMA, SBG
Integrated Farming	3	PF	16	4	10	0	0	0	16	4	10	30	ATMA, SBG
Integrated Farming	3	PF	8	3	19	0	0	0	8	3	19	30	ATMA, SBG
Integrated Farming	3	PF	9	0	21	0	0	0	9	0	21	30	ATMA, SBG
Integrated Farming	3	PF	10	2	18	0	0	0	10	2	18	30	ATMA, SBG
Integrated Farming	3	PF	0	0	0	12	0	18	12	0	18	30	ATMA, SBG
Integrated Farming	3	PF	8	5	17	0	0	0	8	5	17	30	ATMA, SBG
Protective cultivation	5	PF	15	4	6	0	0	0	15	4	6	25	DHO, SBG
Protective cultivation	5	PF	18	0	7	0	0	0	18	0	7	25	DHO, SBG
Protective cultivation	5	PF	8	4	13	0	0	0	8	4	13	25	DHO, SBG
Protective cultivation	5	PF	0	0	0	17	0	8	17	0	8	25	DHO, SBG
Protective cultivation	5	PF	0	0	0	12	4	9	12	4	9	25	DHO, SBG
Protective cultivation	5	PF	10	5	10	0	0	0	10	5	10	25	DHO, SBG
Protective cultivation	5	PF	9	4	12	0	0	0	9	4	12	25	DHO, SBG
Protective cultivation	5	PF	0	0	0	15	0	10	15	0	10	25	DHO, SBG
Protective cultivation	5	PF	0	0	0	11	5	9	11	5	9	25	DHO, SBG
Protective cultivation	5	PF	0	0	0	16	0	9	16	0	9	25	DHO, SBG
Protective cultivation	5	PF	8	7	10	0	0	0	8	7	10	25	DHO, SBG
Total			137	42	151	118	21	76	255	63	227	545	

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	11	412	225	637	12	5	17	424	230	654
Kisan Mela										
Kisan Ghosthi	7	246	155	401	10	6	16	256	161	417
Exhibition										
Film Show										
Method Demonstrations										
Farmers Seminar										
Workshop	1	86	42	128	18	9	27	104	51	155
Group meetings										
Lectures delivered as resource persons	82	-	-	-	-	-	-	-	-	-
Scientific visit to farmers field	54	546	364	910	-	-	-	546	364	910
Farmers visit to KVK	1	967	291	1258	-	-	-	967	291	1258
Exposure visits	1	50	0	50	-	-	-	50	0	50
Ex-trainees Sammelan										
Soil health Camp	10	364	231	595	9	4	13	373	235	608
Animal Health Camp										
Agri mobile clinic										
Soil Sample Analysed	1	678	222	900	-	-	-	678	222	900
Farm Science Club Conveners meet										
Self Help Group Conveners meetings										
Mahila Mandals Conveners meetings	2	-	165	165	5	8	13	5	173	178
Sankalp se Siddhi	1	345	205	550	12	0	12	357	205	562
World Soil Day	1	254	91	345	15	12	27	269	103	372
Total	172	3948	1991	5939	81	44	125	4029	2035	6064

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	52
Radio talks	0
TV talks	5
Popular articles	8
Extension Literature	3000

3.5 Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	Provided to number of farmers
Paddy	MTU 7029	2500	75,00,000/-	Provided to State Govt.
	Lalat	500	15,00,000/-	Provided to State Govt
	Sahbhagi	100	3,00,000/-	Provided to State Govt
Total		3100	93,00,000/-	

KVK farm

Crop	Variety	Area (ha)	Quantity (q)	Value (Rs)
Cereals				
Paddy	MTU 7029	3	80	3,20,000/-
	Sahbhagi	2	30	1,20,000/-
	Lalat	1	5	20,000/-
Pulses				
Pigeon pea	Birsa Arhar 1	1	5	66,000/-
Oilseed				
Mustard	Pusa Mahak	2	10	93,000/-
Others				
Turmeric	Rajendra Sonia	1	40	1,00,000/-
Total		10	170	7,19,000/-

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Provided to number of farmers
Vegetable seedlings				
Cauliflower	Indam Early	1000	500/-	
Cabbage	Golden acre	2000	1,000/-	
Brocoli	Fiasta	1000	850/-	
Tomato	Swarn Samridhi	2000	1,000/-	
Brinjal	Swarn Sakti	2000	1,000/-	
Chilli	KA 2	2000	1,000/-	
Fruits				
Mango				
Guava				
Lime				
Papaya				
Total		10000	5,350/-	

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers			
Bio-pesticide			
Bio-fungicide			
Bio Agents			
Vermicompost	1200	8,400/-	
Total	1200	8,400/-	

Production of livestock materials: N/A

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				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl. specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Grand Total				

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

i) Name of Seed Hub Centre: N/A

Name of Nodal Officer :	
Address :	
e-mail :	
Phone No. : Mobile :	

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2017						
Rabi 2017-18						
Summer/Spring 2018						

iii) Financial Progress

Fund received (2016-17 and 2017-18)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17				
2017-18				

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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

Item	Title	Authors name	Number	Circulation
Research Paper	Effect of lime, compost and microbial inoculants on micronutrient removal by mustard and maize in trace metal contaminated soil of Jharkhand.	Jha Amrit Kumar (2017).	<i>Current Agriculture Research Journal</i> . 5(2): 196-199.	
	Trace metal contamination in soils and plants near industrial areas in Jharkhand.	Jha, Amrit Kumar (2017).	<i>International Journal of Advanced Biological Research</i> . 7(4): 665-670.	
	Effect of fly ash generated by Patratu Thermal Power Station on properties of cultivated soils.	Jha, Amrit Kumar, Chatterjee, Kaushik and Sarkar, A. K. (2018).	<i>Environment and Ecology</i> . 36(1A): 181-187.	
	Recent advances in processing of button mushroom	Mehta, B.K., Jain, S.K., Sharma, G.P. and Kumar A. (2017)	<i>International Journal of Advanced Biological Research</i> . 7(3): 485-489.	
	Post harvest management of button mushroom	Mehta, B.K., Jain, S.K. and Surabhi (2017)	<i>Environment and Ecology</i> . 35(4D): 3378-3384.	

	Osmotic dehydration as a pre treatment before hot air drying of mushroom	Mehta, B. K., Kumari Maya, Surabhi and Jain, S.K. (2018)	<i>Journal of Current Microbiology and Applied Science</i> . 7: 1341-1349.	
	Extent of knowledge of tribal women on nutritional aspects of cultivated oyster mushroom.	Kumari, M., Rani, S., Kumari, A and Mandal B. (2017)	<i>Progressive Research – An International Journal</i> Vol 12 (Special II): 1568-1570.	
	Socio-personnel and economic traits affecting the participation of rural women in agricultural activities.	Kumari Maya (2017).	<i>Bull. Env. Pharmacol. Life Sci.</i> , Special issue (5): 516-519.	
	Constraint in empowerment of rural women in Sahibganj district of Jharkhand, India.	Kumari Maya (2018)	<i>Int. J. Curr. Microbiol. Applied Science</i> Special Issue (7): 1463-1469.	
	Role of women in decision making regarding agricultural activities in Sahibganj district of Jharkhand.	Kumari, M., Kumar, A. and Srivastav, A. K. (2018).	<i>J. Krishi Vigyan</i> , 6(2): 197-200.	
	Change in behavioral components of rural women in terms of level of knowledge after receiving value addition training.	Kumari, M., Kumari, A., Kumari, V. and Kumar, M. (2018).	<i>J. Pharmacognosy and Phytochemistry</i> , SPI: 463-465.	
Bulletins	□□□□□□ □□□□ □□ □□□□□□ □□ □□□□□□□□□□	Dr. Amrit Kumar Jha and Dr. Birendra Kumar Mehta	1000	
Popular Articles	□□□□□□□□ □□ □□□□ □□□□□□□□□□ □□□□ □□□□□□□ □□ □□□□	□□. □□□□ □□□□□□	1000	
	□□□□ □□□□□□ □□ □□□□□□□□□□□□ □□□□ □□□□□□ □□□□□□	□□. □□□□ □□□□□□ □□□□ □□. □□□□□□□□□□ □□□□□□ □□□□□□		
Extension Pamphlets/ literature	Shree vidhi se dhaan ki kheti	Sri Kaushik Chatterjee and Dr. Amrit Kumar Jha	2000	
	Kechua khad banane ka tarika.	Sri Kaushik Chatterjee and Dr. Amrit Kumar Jha	2000	
Technical reports	Progress Report 2015-16	Krishi Vigyan Kendra, Sahibganj		
TOTAL			6000	

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: Nil

S. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by

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

Name of farmer	
Address	
Contact details (Phone, mobile, email Id)	
Landholding (in ha.)	
Name and description of the farm/ enterprise	
Economic impact	
Social impact	
Environmental impact	
Horizontal/ Vertical spread	

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

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

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

b. Give details of organic farming practiced by the farmer: **N/A**

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

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

3.11. a. Details of equipment available in Soil and Water Testing Laboratory: **N/A**

Sl. No	Name of the Equipment	Qty.

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (in Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
1200	Nil	1200	9,560	125	-

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	Celebration of World Soil Day, Krishak Goshthi, Farmers-Scientist Interaction	372	1	Smt. Renuka Murmu Chairman Zila Parishad	200	242

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

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

Type of activities	No. of activities	Number of participants	Related crop/livestock technology
Farmers Scientist Interaction, Krishak Goshthi, Exhibition of Farm Implements, Visit of Vermicompost unit, Mushroom production unit	1	524	

3.14. RAWE/ FETprogramme - is KVK involved? (Y/N): No

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
30 th Aug 2017	Sri Anant Kumar Ojha Hon'ble MLA Rajmahal Assembly Constituency	Participation in Sankalp Se Siddhi Programme
30 th Aug 2017	Sri Tala Marandi Hon'ble MLA Borio Assembly Constituency	Participation in Sankalp Se Siddhi Programme
30 th Aug 2017	Smt Renuka Murmu Hon'ble Chairman, Zila Parishad, Sahibganj	Participation in Sankalp Se Siddhi Programme
30 th Aug 2017	Dr. Shailesh Kumar Chaurasiya, IAS Deputy Commissioner, Sahibganj	Participation in Sankalp Se Siddhi Programme
30 th Aug 2017	Smt Nancy Sahay, IAS Deputy Development Commissioner, Sahibganj	Participation in Sankalp Se Siddhi Programme
30 th Aug 2017	Sri Ajay Kumar Singh Joint Director Agriculture, Santhal Pargana	Participation in Sankalp Se Siddhi Programme
5 th Dec 2017	Smt Renuka Murmu Hon'ble Chairman, Zila Parishad, Sahibganj	Participation in World Soil Day and Krishak Sammelan

4. 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)

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

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

Horizontal spread of technologies	
Technology	Horizontal spread

Give information in the same format as in case studies

4.2. 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	
Role of KVK with quantitative data support:	
Timeline of the entrepreneurship development	
Technical Components of the Enterprise	
Status of entrepreneur before and after the enterprise	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	
Horizontal spread of enterprise	

4.6. Any other initiative taken by the KVK

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	28/06/2017	23/11/2017	3.0	MTU 7029	F/S	80			
Paddy	08/07/2017	27/10/2017	2.0	Sahbhagi	F/S	30			
Paddy	05/07/2017	02/11/2017	1.0	Lalat	F/S	5			
Pigeon pea	21/06/2017	26/03/2018	1.0	Birsa Arhar 1	F/S	5			
Mustard	17/11/2017	25/03/2018	2.0	Pusa Mahak	F/S	10			
Turmeric	14/07/2017	12/12/2017	1.0	Rajendra	T/L	40			

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

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

6.3. Performance of instructional farm (livestock and fisheries production) N/A

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.							

6.4. Utilization of hostel facilities **Not Completed**

Accommodation available (No. of beds)

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

(For whole of the year)

6.5. Utilization of staff quarters **Not completed**

Whether staff quarters has been completed:

No. of staffquarters:

Date of completion:

Occupancy details:

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

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	State Bank of India	College Campus, Sahibganj	11462063112

7.2 Utilization of funds under FLD on Oilseed (Rs. In Lakhs) N/A

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

7.3 Utilization of funds under FLD on Pulses (Rs. In Lakhs) N/A

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

7.4 Utilization of funds under FLD on Maize (Rs. In Lakh) N/A

Item	Released by ICAR		Expenditure		Unspent balance as on 1 st April 2012
	Kharif	Rabi	Kharif	Rabi	
TOTAL					

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

Sl. No.	Head	Sanction	Released	Expenditure
1	Grant in Aid Capital	Nil	Nil	Nil
2	Grant in Aid Salary	39,71,000.00	39,71,000.00	39,77,262.00
3	Grant in Aid General	15,00,000.00	15,00,000.00	16,52,280.00
	Total	54,71,000.00	54,71,000.00	56,29,542.00

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)
2015-16	11,86,056.00	8,65,875.00	6,98,505.00	13,53,426.00
2016-17	13,53,426.00	10,11,224.00	7,94,608.00	15,70,042.00
2017-18	15,70,042.00	4,65,546.00	8,05,574.00	12,30,014.00

7.6. (i) Number of SHGs formed by KVKs

11

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

(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Name of activity	Season	With line department	With ATMA	Both
Joint Visit of PC and PD (15 times)	Kharif 2015-16		Yes	
Joint Visit of PC and PD (8 times)	Rabi 2015-16		Yes	
Crop cutting	Kharif 2015-16	Yes	Yes	Yes
Crop cutting	Rabi 2015-16	Yes	Yes	Yes
Promotion of vermicompost production	Kharif and Rabi 2015-16		Yes	
Promotion of fodder production	Kharif and Rabi 2015-16	Yes		

8. Other information

8.1 Prevalent diseases in Crops **N/A**

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

8.2. Prevalent diseases in Livestock/Fishery **N/A**

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

9.1. Nehru YuvaKendra(NYK) Training **N/A**

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

9.2. PPV & FR Sensitization training Programme **N/A**

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

9.3. *mKisan*Portal (National Farmers' Portal/ SMS Portal)

Type of message	No. of messages	No. of farmers covered
Crop	12	
Livestock	2	
Fishery		
Weather		
Marketing		
Awareness	8	
Training information		
Other	4	
Total	26	15425

9.4. KVK Portal and Mobile App

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

9.5. a. Observation of Swacha Bharat Programme

19/05/2017	Training on composting from rural waste at Bataiel of Barharwa block
16/06/2017	Training on composting from rural waste at Taljhari village of Pathna block
04/07/2017	Training on composting from rural waste at Brindaban village of Taljhari block
02/08/2017	Training on composting from rural waste at Mahasingpur village of Rajmahal block
05/09/2017	Training on composting from rural waste at Bhatbhanga village of Taljhari block
16/10/2016 to 31/10/2016	Swachhata Pakhwara (Different activities like training, goshti, awareness programmes were organized during the period at different villages of the district)
06/11/2017	Training on composting from rural waste at Bhognadih of Barheit block
17/11/2017	Training on composting from rural waste at Paharpur of Borio block
30/11/2017	Training on composting from rural waste at Tetariya of Borio block
07/12/2017	Training on composting from rural waste at Mahadeoganj village of Sahibganj block
20/01/2018	Training on composting from rural waste at Kodarjanna village of Sahibganj block
24/02/2018	Training on composting from rural waste at Piyarpur village of Udhwa block

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	2	
2. Basic maintenance	6	
3. Sanitation and SBM	24	
4. Cleaning and beautification of surrounding areas	5	
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	11	
6. Used water for agriculture/ horticulture application	-	
7. Swachhta Awareness at local level	6	
8. Swachhta Workshops	2	
9. Swachhta Pledge	8	
10. Display and Banner	2	
11. Foster healthy competition	-	
12. Involvement of print and electronic media	10	

13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	12	
14. No of Staff members involved in the activities	15	
15. No of VIP/VVIPs involved in the activities	2	
16. Any other specific activity (in details)		
Total	105	-

9.6. Observation of National Science day **N/A**

Date of Observation	Activities undertaken

9.7. Programme with SeemaSurakshaBal (BSF) **N/A**

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school:

Sl. No.	Name of School	Date of Visit	Area covered
1	Utkramit Madhya Vidyalay, Kajigaon, Rajmahal	06/04/2017	Class V to VIII
2	Prathmik Vidyalay, Parariya, Rajmahal	30/04/2017	Class V to VIII
3	Utkramit Uchcha Vidyalay, Soti Chaunki, Pangaro	26/07/2016	Class I to X
4	Madhay Vidyalay, Raibanna	01/08/2016	Class I to VIII
5	Utkramit Prathmik Vidyalay, Ramchowki, Taljhari	02/11/2016	Class V to VIII

Give good quality 1-2 photograph(s)

9.9. Details of 'Sankalp Se Siddhi' Programme

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha/Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)							Coverage by Door Darsan (Yes/No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman ZilaPanchayat	Distt. Collector/ DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.	Total		
30 th Aug. 2017	Nil	Nil	Nil	2	1	1	12	535	15	562	No	3 (E TV, Kashish, Sahara)

9.10. Details of Swachhta Hi Sewa programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Awareness, Cleaning of public place, Cleaning of KVK premises, Awareness at Panchayat Bhavan of adopted villages and cleaning of Panchayat parisar	5	226	Nil	-

9.11. Details of Mahila Kisan Divas programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Kisan Ghosthi	17	164	1	Smt. Renuka Murmu Chairman, Zila Parishad

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

List of Progressive Farmers

S.N.	Name	Address	Contact No.
1.	Sri Uttam Kushwaha	Lalbandh,Rajmahal,Sahibganj	08002309634
2.	Sri Pawan Singh	Parariya,Rajmahal,Sahibganj	09771334785
3.	Sri Surendra Choudhary	Mayurkola,Barharwa,Sahibganj	08083201907
4.	Sri Ajit Kr.Arya	Kotalpokhar,Barharwa Sahibganj	07870478234
5.	Sri Khublal Pandit	Telo,Borio, Sahibganj,	08102559274
6.	Sri Asunta Hembram	Jirul,Borio, Sahibganj,	09905650291
7.	Sri Rajeev Kr.Yadav	Mahadevganj, Sahibganj	09162458289
8.	Sri Raghuvansh Yadav	Mahadevganj, Sahibganj	07250172916
9.	Sri Ramesh C. Ravidas	Dumariya,Barhet, Sahibganj	08987429872
10.	Sri Niladri S. Mitra	Barharwa, Sahibganj,	09801161162
11.	Md. Anisur Rahman	Harishpur, Barharwa, Sahibganj	09905899114
12.	Md.Rauff	Kullipara, Sahibganj	08102808005
13.	Sri Chandra S. Singh.	Bangali Tola, Sahibganj	09199867342
14.	Sri Niranjan Yadav	Sobhanpur diara, Sahibganj	09973749949
15.	Md.Sabeer Hussain	Barharwa, Sahibganj	09709282706
16.	Sri Harendra Kr. Sah	Barharwa, Sahibganj,	09798452525
17.	Sri Gaya Lal Dehri	Pathana, Sahibganj,	09470922631
18.	Sri Mahesh Pandey	Nadi Diara, Sahibganj	08936810749
19.	Sri Safaniyal Besra	Vrindaban,Taljhari,Sahibganj	09835606410
20.	Sri Shyam Kumar	Mirjachauki, Mandro, Sahibganj	09162021622
21.	Sri Bablu Tudu	Nira Para, Borio, Sahibganj.	07739750407
22.	Sri Vishwanath Mandal	Chanan, Borio, Sahibganj	08757242470
23.	Sri Aditya Prakash	Mahadevganj, Sahibganj	09835761003
24.	Sri Kangan Hembram	Dumariya, Barhet, Sahibganj	08987650569
25.	Sri Siyaram Yadav	Sahibganj Gramin Panchayat, Sahibganj	08252885743
26.	Sri Babban Yadav	Sahibganj Gramin Panchayat, Sahibganj	07870651938
27.	Sri Kailash Thakur	Hajipur Diara, Sahibganj	08521210728
28.	Sri Brahmdeo Mandal	Hajipur Diara, Sahibganj	08521210728
29.	Sri Kapildev Mandal	Hajipur Diara, Sahibganj	08521210728
30.	Sri Rudal Choudhary	Gaday Diara, Sahibganj	09955790304
31.	Sri Bhudeo Mandal	Harishchandrapur, Darla, Rajmahal	09199467169
32.	Sri Rajesh Yadav	Chhoti Koderjanna, sahibganj	07779983716

9.13.HRD programmes attended by KVK person

Training programme/ Seminar/ Symposia/ Workshop etc attended	Duration	Name of the participants	Designation	Organizer of the Programme
Advance in agricultural and applied sciences for promoting food security	May13-15, 2017	Dr. Maya Kumari	Scientist (Home Science)	SAID, Ranchi
Women empowerment: Challenges and Strategies.	Aug 5-6, 2017	Dr. Maya Kumari	Scientist (Home Science)	Bihar Agril. University, Sabour
Advances in agricultural and biodiversity conservation for sustainable development	Oct 27-28, 2017	Dr. Maya Kumari	Scientist (Home Science)	ATDS, Meerut
Promoting and reinvigorating agri-horti technical innovations	Nov 11-12, 2017	Dr. Maya Kumari	Scientist (Home Science)	PRAGATI, Agra
Doubling farmers income and farm production through skill development and technology application	Nov 28-30, 2017	Dr. Maya Kumari	Scientist (Home Science)	Indian Society of Extension Education, New Delhi
Development in soil science 2017	Dec 11-14, 2017	Dr. Amrit Kumar Jha	Scientist (Soil Science)	Indian Society of Soil Science, New Delhi
Improving income of farmers through agriculture and aquaculture through development in interventions	Jan 5-7, 2018	Dr. Maya Kumari	Scientist (Home Science)	Society of Krishi Vigyan
ICT applications in changing face of agriculture	Jan 19-20, 2018	Dr. Maya Kumari	Scientist (Home Science)	Birsa Agricultural University, Kanke, Ranchi
Livelihood and food security	Jan 27-28, 2018	Dr. Maya Kumari	Scientist (Home Science)	SAID, Ranchi
Food and Agriculture	March 29-31, 2018	Dr. Maya Kumari	Scientist (Home Science)	Endling,

9.14. Revenue generation

SL.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Lodging	84,000.00	ATMA, DAO, DHO
2.	Institutional	30,625.00	ATMA, DAO, DHO

9.15. Resource Generation: N/A

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

9.16. Performance of Automatic Weather Station in KVK: N/A

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

9.17. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK
Jharkhand	Sahibganj	Crop Management	5	215	Suitability of variety for contingent situation Promotion of DSR (Direct Seeded Rice)

10. Report on Cereal Systems Initiative for South Asia (CSISA): N/A

a) Year:

b) Introduction / General Information:

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

11. Details of TSP

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

Programmes	Physical achievements
Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)	152
On-farm trials (Number)	4
Frontline demonstrations (Number)	11
Farmers training (in lakh)	0.01057
Extension personnel training (in lakh)	0.00116
Participants in extension activities (in lakh)	0.01622
Seed production (in tonnes)	17.0

Planting material production (in lakh)	0.03000
Livestock strains and fingerlings production (in lakh)	-
Soil, water, plant, manures samples testing (in lakh)	0.00375
Provision of mobile agro – advisory to farmers (in lakh)	-
No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)	16

b. Fund received under TSP in 2017-18 (Rs. In lakh): **15.00 lakh**

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

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

d. Location and Beneficiary Details during 2017-18

District	Sub-district / Block	No. of Village covered	Name of village(s) covered	ST population benefitted (No.)				
				M	F	T		
Sahibganj	Borio	4	Barmasiya	26	32	58		
			Khairwa	31	26	57		
			Jirul	46	52	98		
			Paharpur	24	27	51		
	Pathna	5	Vijaypur	35	28	63		
			Taljhari	27	17	44		
			Chandola	22	34	56		
			Dighi	30	18	48		
			Ghatiyari	15	16	31		
	Barheit	5	Dumariya	78	63	141		
			Bhognadih	28	36	64		
			Barmasiya	52	36	88		
			Bara Daldali	67	45	112		
			Gopladih	43	56	99		
			Taljhari	8	Brindaban	42	46	88
					Sahrajdhab	24	35	59
					Ambadih	30	31	61
	Bhatbhanga	27			38	65		
	Mandro	3	Bhagiyamari	16	18	34		
			Gangatia	32	35	67		
Simaljori			28	34	62			
Hisiganj			33	28	61			
Ambadiha			52	35	87			
Bartalla			67	46	113			
Kendua			38	31	69			

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

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

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

13. Awards/Recognition received by the KVK N/A

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

Award received by Farmers from the KVK district N/A

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

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

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


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




16. Integrated Farming System (IFS) N/A

Details of KVK Demo. Unit

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

17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per annum due to the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Participatory seed production through seed villages	<ul style="list-style-type: none"> ➤ Training on seed production techniques were organized. ➤ Four seed villages were established during 2012-13. ➤ Presently 53 seed villages are producing certified seed of rice, pigeon pea and mustard in about 1000 ha. 	40,000/- to 50,000/-	800-900 farmers	

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per annum due to the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
2	Turmeric cultivation on hills	<ul style="list-style-type: none"> ➤ Improved variety of turmeric (Rajendra Sonia) was introduced under FLD programmes. ➤ Presently rainfed turmeric is being cultivated in about 100 ha in hilly area of the district 	1,50,000/- to 1,75,000/-	100-150 farmers	
3	Mushroom cultivation	<ul style="list-style-type: none"> ➤ Farm women were trained on production of Oyster mushroom. ➤ 60 groups of tribal farm women are engaged in production of mushroom. ➤ In case of excess production, they also prepare mushroom pickles and sell 	50,000/- to 60,000/- per women per 500 bag	500 - 600 farm women	
4	Bee-Keeping	<ul style="list-style-type: none"> ➤ Use of five combs per frame instead of three in Italian bee keeping ➤ Processing of honey at farmer's end. 	60,000/- to 70,000/- per 5 boxes	100 - 120 farmers	

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

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)	-	-	24/03/2018	5	-
II (up-to 24.04.218)	-	-			
Total					

19. Any other programme organized by KVK, not covered above **N/A**

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