

# ANNUAL PROGRESS REPORT

(1<sup>st</sup> April 2020 -31<sup>st</sup> March 2021)



KRISHI VIGYAN KENDRA  
DHANBAD, BALIAPUR FARM  
DIST. - DHANBAD-828201  
BIRSA AGRICULTURAL UNIVERSITY  
RANCHI, JHARKHAND.

## **PROFORMA FOR ANNUAL REPORT 2020 ( 1<sup>st</sup> April 2020-31<sup>st</sup> March2021)**

### **1. GENERAL INFORMATION ABOUT THE KVK**

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

Name and address of KVK	Telephone		E-Mail
	Office	FAX	
Krishi Vigyan Kendra, Dhanbad Baliapur farm, Dhanbad-828201	Office 09431507690	FAX	<a href="mailto:kvkdhanbad@rediffmail.com">kvkdhanbad@rediffmail.com</a> <a href="mailto:kvkdhanbadbau.2012@gmail.com">kvkdhanbadbau.2012@gmail.com</a> <b>Website--www.kvkdhanbad.org.in</b>

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

Name and address of Host Organization	Telephone		E mail
	Office	FAX	
Birsa Agricultural University, Ranchi, Jharkhand.	0651-2450849	0651-2450525	

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

Name	Telephone / Contact		
	Residence	Mobile	Email
<b>Sh. Lalit Kumar Das</b>		09431507690	<a href="mailto:kvkdhanbad@rediffmail.com">kvkdhanbad@rediffmail.com</a>

#### 1.4. Year of sanction of KVK: 2005

1.5. Staff Position (as on 31<sup>st</sup> December 2020)

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.	Senior Scientist& Head	Sh. Lalit Kumar Das	I/C Senior Scientist& Head	Agril. Extn.	15600-39100	15.07.2019	Permanent	SC
2.	Subject Matter Specialist	Dr. Seema Singh	Scientist	Home Science	15600-39100	01.04.2019	Permanent	Gen
3.	Subject Matter Specialist	Dr. Rajeev Kumar	Scientist	Agril. Engg.	15600-39100	11.12.2007	Permanent	Gen
4.	Subject Matter Specialist	Dr. Adarsh Kr. Srivastava	Scientist	Agril. Extn.	15600-39100	04.04.2005	Permanent	Gen
5.	Subject Matter Specialist	Dr. Navin Kumar	Scientist	Plant Protection	15600-39100	11.12.2007	Permanent	Gen
6.	Subject Matter Specialist	Vacant	-	-	15600-39100	-----		-
7.	Subject Matter Specialist	Vacant	-	-	15600-39100	-----		-
8.	Programme Assistant	Sri Raman Kr. Srivastava	Programme Assistant	Agriculture	5500-9000	01.07.2009	Permanent	Gen
9.	Computer Programmer	vacant	---		5000-8000	18.07.2005		
10.	Farm Manager	Sri Sanjay Kumar	Farm Manager	Agriculture	5500-9000	01.03.05	Permanent	Gen
11.	Accountant / Superintendent	-		-	-	-		
12.	Stenographer	-			-	-		
13.	Driver	Sri Hem Prasad Manjhi	Contractual		9000		Contractual	ST
14.	Driver	Sri Girdhari Mahto	Contractual		9000	-	Contractual	OBC
15.	Supporting staff	Sri Shyamal Sarkar	Contractual	-	7000	-	Contractual	Gen
16.	Supporting staff	Sri Ram Prasad Murmu	Contractual	-	7000	-	Contractual	ST

## 1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	1.0
2.	Under Demonstration Units	1.0
3.	Under Crops	4.5
4.	Orchard/Agro-forestry	1
5.	Others with details	2.5
	Total	10.0

*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					Before 31.03.2007		Use	ICAR
2.	Farmers Hostel					-do-		Use	ICAR
3.	Staff Quarters (6)					-do-		Use	ICAR
4.	Piggery unit								
5	Fencing								
6	Rain Water harvesting structure					Incomplete		Not	ICAR
7	Threshing floor					Before 31.03.2007		Use	B.A.U
8	Farm godown								
9.	Dairy unit								
10.	Poultry unit								
11.	Goatry unit								
12.	Mushroom Lab								
13.	Mushroom production unit					Before 31.03.2007		Use	B.A.U
14.	Shade house								
15.	Soil test Lab					Before 31.03.2007		Use	ICAR
16	Others, Please Specify					Before 31.03.2007		Use	ICAR

\* 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
Tractor with trolley	2006	--	1702 hours	Working
Tractor with trolley	Provided by BAU Ranchi		00754.5hours	
Tata Sumo	2006	500000	238718 km.	Working
Motar Cycle	2016	59961	3978	Working
Motar Cycle	2016	59961	4987	Working

## C) Equipment &amp; AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
b. Farm machinery				
c. AV Aids				
Desktop Computer set	2006	--	Not Working	ICAR
Xerox	2007	--	Not working	ICAR
Digital Camera	2007	14512.50	Not Working	ICAR

## D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Diesel Pump set Big – 5 H.P	2006	-	Working	
Spraying Machine (Gatour)	2006	-	Working	
Disc plough	2009	-	Working	
Multi purpose seed drill	2009	-	Not working	
Grass cutter	2009	-	Not working	
M. B. Plough	2009	-	Working	
Seed cum fertilizer drill	2009	-	Not working	
Rotary Tiller	2009	-	Working	
Power sprayer	2009	-	Not working	
Cage wheel nut bolt type	2009	-	Working	

## 1.8. Details SAC meeting\* conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	04.10.2019	50			

\* Salient recommendation of SAC in bullet form

Attach a copy of SAC proceedings along with list of participants

## 2.a. District level data on agriculture, livestock and farming situation (2020)

Sl. no.	Item	Information
1	Major Farming system/enterprise	Agriculture + Livestock, Agriculture + Livestock + Poultry Agriculture + Horticulture Agriculture + Horticulture + Sericulture

		Agriculture + Fisheries + Duckery + Poultry			
2	Agro-climatic Zone	Zone – 7 Sub zone – IV			
3	Agro ecological situation	Sandy loam, rainfed, undulating	Soils are light textured having undulating topography & crops are grown under rainfed situation. No irrigation facility is available.		
		Sandy loam, undulating, irrigated.	Soils are light textured having undulating topography with irrigation facility. The sources of irrigation are mainly wells and tanks.		
		Clay soil, rainfed.	Soils are heavy textured, rich in organic matter and fertile. Crops are grown under rainfed situation. Only life saving irrigations is available.		
		Heavily soil, undulating, rainfed / forest	Soils are heavy textured having undulating topography with no irrigation facility. Most of lands are under forest. Crops are grown under rainfed situation.		
4	Soil type	Stony & gravelly	Found near the foot hills. Thickness of soil is very less. Used only for recreation purpose and picnic spots.		
		Sandy soil	Locally known as balu found near the river soils. They are coarse textured having less water holding capacity & deficient in plant nutrients.		
		Loamy soil	Found near the hills. They are medium textured soil having low water holding capacity. These soils are under cultivation of various types of crops.		
		Clay soil	Found near the tanks and rivers. They are heavy textured soil having high water holding capacity. These soils are fertile & very productive. Various type of crop and vegetables are grown.		
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Crop	Area (ha)	Productivity (Qtl /ha)	
		Summer Rice	148	19.3	
		Kharif Rice	41576	29.5	
		Maize	2386	25.0	
		Wheat	2789	21.34	
		Finger millet	125	6.8	
		Chick pea	4815	15	
		Potato	1056	296	
Onion	849	188.6			
6	Mean yearly temperature, rainfall,	Month	Rainfall (mm)	Temperature ° C	Relative Humidity(%)

	humidity of the district			Maximum	Minimum	7.00A M	2.00PM
		January 2020	2.2	24.7	9.3	81.4	47.2
		February 2020	14.8	32.9	14.9	78.2	46.3
		March 2020	3.0	39.4	22.6	61.5	41.7
		April, 2020	56.5	38.7	19.8	40.8	33.2
		May, 2020	25.3	39.8	20.9	54.3	35.2
		June, 2020	160.8	37.9	20.6	52.5	34.9
		July, 2020	346.00	33.8	21.2	63.4	41.7
		August, 2020	192.6	32.7	20.4	59.8	37.6
		September, 2020	89.3	33.4	20.7	68.2	41.6
		October, 2020	8.7	35.2	21.8	73.4	46.9
		November, 2020	--	33.4	18.9	69.8	42.7
		December 2020	--	35.6	11.6	76.5	41.8
7	Production of major livestock products like milk, egg, meat etc.	<b>Category</b>	<b>Population</b>				
		<b>Cattle</b>					
		<i>Crossbred</i>	24176				
		<i>Indigenous</i>	458804				
		<b>Buffalo</b>	78806				
		<b>Sheep</b>					
		<i>Crossbred</i>	200				
		<i>Indigenous</i>	43166				
		<b>Goats</b>	214396				
		<b>Pigs</b>	214326				
		<i>Crossbred</i>	2054				
		<i>Indigenous</i>	686137				
		<b>Rabbits</b>	463				
		<b>Poultry</b>					
		Hens					
		<i>Desi</i>	177167				
		<i>Improved</i>	59932				
		Ducks	14141				
		Turkey and others	411				

Note: Please give recent data only

## 2.b. Details of operational area / villages (2020)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Dhanbad	Baliapur	Shitalpur	<b>Kharif-</b> Rice, Ragi, Sesamum, Black gram, Red gram <b>Rabi-</b> Wheat, Mustard, Linseed, Gram, Lentil, Potato, Brinjal <b>Summer-</b> Moong, Ladyfinger, Bottle guard, Ridge guard.	<ol style="list-style-type: none"> <li>1. Unavailability of quality seed.</li> <li>2. Unavailability of quality insecticides.</li> <li>3. Scarcity of irrigation water during Rabi &amp; Summer.</li> <li>4. Lack of knowledge about improved scientific cultivation.</li> <li>5. High cultivation cost of paddy.</li> <li>6. Damage of grains during storage.</li> </ol>	<ol style="list-style-type: none"> <li>1. Improvement of soil and water conservation practices.</li> <li>2. Improvement in yield of monocrop rice.</li> <li>3. Popularization of IPM measures for field and Horticultural crops.</li> <li>4. Introduction of post harvest &amp; value addition technology.</li> </ol>
2.	Dhanbad	Baliapur	Salpatra	<b>Kharif-</b> Rice, Maize, Sesame, Black gram, Red gram, Vegetables. <b>Rabi-</b> Wheat, Mustard, Linseed, Gram, Lentil, Pea, Potato, Brinjal, Cauliflower, Cabbage. <b>Summer-</b> Sesame, Moong, Ladyfinger, Cucurbits.	<ol style="list-style-type: none"> <li>1. Unavailability of quality seed.</li> <li>2. Unavailability of quality insecticides.</li> <li>3. Scarcity of irrigation water during Rabi &amp; Summer.</li> <li>4. Lack of knowledge about improved scientific cultivation.</li> <li>5. High cultivation cost of paddy.</li> <li>6. Damage of grains during storage.</li> </ol>	<ol style="list-style-type: none"> <li>1. Improvement of soil and water conservation practices.</li> <li>2. Improvement in yield of mono crop rice.</li> <li>3. Popularization of IPM measures for field and Horticultural crops.</li> <li>4. Introduction of post harvest &amp; value addition technology.</li> </ol>

## 2. c. Details of village adoption programme:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2020) for its development and action plan

Name of village	Block	Action taken for development
Name of village	Block	Action taken for development
Salpatra	Baliapur	Base line survey, Training, FLD and OFT
Dudhiya	Baliapur	Base line survey, Training and FLD
Pawaniyan	Nirsa	Base line survey , Training and FLD
Dhavatand	Purvi Tundi	Base line survey , Training and FLD

## 2.1 Priority thrust areas

S. No	Thrust area
1.	Improvement of soil and water conservation practices
2.	Management of problematic soils.
3.	Popularization of integrated nutrient management practices
4.	Improvement in yield of mono crop rice.
5.	Diversification of traditional rice-based cropping system with appropriate commercialization
6.	Breed Improvement of cattle, pig and goat.
7.	Popularization of IPM measures for field and Horticultural crops.
8.	Introduction of post harvest & value addition technology.
9.	Entrepreneurship development of SHG groups.

### 3. TECHNICAL ACHIEVEMENTS

#### 3.A. Summary details of target and achievement of mandatory activities by KVK during the year 2020

OFT											FLD																
No. of technologies tested:											No. of technologies demonstrated:																
Number of OFTs			Number of farmers								Number of FLDs			Number of farmers													
Target	Achievement	Target	Achievement								Target	Achievement	Target	Achievement													
			SC		ST		Others		Total					SC		ST		Others		Total							
			M	F	M	F	M	F	M	F				M	F	M	F	M	F	M	F	M	F	T			
10	9	100	2	2	5	0	8	0	9	2	9	190	180	475	5	4	1	3	7	2	0	3	4	7	5	1	6

Training											Extension activities																
Number of Courses			Number of Participants								Number of activities			Number of participants													
Target	Achievement	Target	Achievement								Target	Achievement	Target	Achievement													
			SC		ST		Others		Total					SC		ST		Others		Total							
			M	F	M	F	M	F	M	F				M	F	M	F	M	F	M	F	M	F	T			
131	68	2990	1	1	2	1	8	6	1	8	2																

Impact of capacity building											Impact of Extension activities																
Number of Participants trained			Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								Number of Participants attended			Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)													
Target	Achievement	Target	SC		ST		Others		Total		Target	Achievement	Target	SC		ST		Others		Total							
			M	F	M	F	M	F	M	F				M	F	M	F	M	F	M	F	M	F	T			

Seed production (q)					Planting material (in Lakh)				
Target		Achievement			Target		Achievement		

Livestock strains and fish fingerlings produced (in lakh)*					Soil, water, plant, manures samples tested (in lakh)				
Target		Achievement			Target		Achievement		
0		0			200		87		

\* Give no. only in case of fish fingerlings

Publication by KVKs							
Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper	1	1000	6	5.38	5.21		
Seminar/conference/symposia papers	4	500	-	-	-	-	-
Books	1	1000	-	-	-	-	-
Bulletins							
News letter							
Popular Articles							
Book Chapter							
Extension Pamphlets/literature	12	500					
Technical reports	2	50					
Electronic Publication (CD/DVD etc)	2	100					
TOTAL	19						

## 3.1.1 Achievements on technologies assessed and refined

**OFT-1**

1	Title of On farm Trial	<b>EFFICACY OF ESTABLISHMENT METHODS ON PRODUCTIVITY AND PROFITABILITY IN RICE (IR64DRT)</b>										
2	Problem diagnose	High production cost & labour crisis during transplanting of rice										
3	Details of technologies selected for assessment/refinement	Farmer Practice- Transplanting Technological option 1- Sowing of dry seeded rice by zero till seed cum fertilizer drill . Technological option2 - Sowing of sprouted seed by drum seeder after puddling										
4	Source of Technology	Department of Agril. Engg., BAU, Ranchi										
5	Production system and thematic area	Rice – Pulse - fallow , Resource Conservation Technology										
6	Performance of the Technology with performance indicators	Technological Options	No. of Trial	No. of weeds /sq. m	No. of tillers/plant	Length of the panicle	Wt. of 1000 grains	Yield (q/ha)	Cost of Cultivation	Gross return (Rs)	Net Return (Rs)	B C Ratio
		F.P.	5	13	21	22.5	20.5	28.7	23,000	51,600	28,600	2.24:1
		T <sub>1</sub>		18	14	21.0	19.6	22.9	18,000	41,200	23,200	2.28:1
		T <sub>2</sub>		15	18	21.5	19.8	27.8	19,,500	50,000	29,500	2.56:1
7	Final recommendation for micro level situation	The yield in case of farmer practice i.e. transplanting of rice is more than other two option but the BC ratio in case of sowing of rice by drum seeder after puddling is greater than the other two option hence may be benefited to the farmers for rice cultivation in medium land situation.										
8	Constraints identified and feedback for research	During on farm trial it was found that the plastic drum seeder is more profitable to the farmer in case of direct sowing of rice.										
9	Process of farmers participation and their reaction	The use of plastic drum seeder is easy to use but need practice before using in the field for sowing										



Sowing of paddy by *Zero tillage seed cum fertilizer drill*



Sowing of Paddy by *Drum seeder after puddling*



Farmer Practice- Transplanting



Technological option 1 - *Sowing of dry seeded rice by zero till seed cum fertilizer drill*



Technological option 1 - Sowing of dry seeded rice by zero till seed cum fertilizer drill



Technological option2 - *Sowing of sprouted seed by drum seeder after puddling*

## OFT-2

1	Title of On farm Trial	<b>PERFORMANCE EVALUATION OF DRIP IRRIGATION WITH MULCH TOMATO</b>								
2	Problem diagnose	Low production of tomato due to irrigation water crisis								
3	Details of technologies selected for assessment/refinement	Farmers Practice (FP) : Furrow irrigation without mulch. Technology option-I : Drip Irrigation in paired row without mulch. Technology option-II : Drip irrigation in paired row with plastic (Silver- Black) mulch								
4	Source of Technology	Department of Agril. Engg., BAU, Ranchi								
5	Production system and thematic area	Pulse – Vegetable - Vegetable , Natural Resource Management								
6	Performance of the Technology with performance indicators	Technological Options	No. of Trial	No. of Branch / Plant	Field water use efficiency (Kg/m <sup>3</sup> )	Yield (q/ha)	Cost of Cultivation (Rs./ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B C Ratio
		FP	06	13	21.6	122.4	43000	97900	54900	2.27:1
		TO <sub>1</sub>		16	40.4	213.1	59000	170400	111400	2.88:1
		TO <sub>2</sub>		18	57.8	292.7	88000	234000	146000	2.66:1
7	Final recommendation for micro level situation	The yield and net return in case of <b>TO<sub>2</sub></b> i.e. <b>cultivation of tomato by drip irrigation system with plastic mulch is more than the other two option but the B:C ratio in case of TO<sub>1</sub></b> is more than <b>TO<sub>2</sub></b> and <b>FP</b> . So it may be recommended that the <b>cultivation of tomato by drip irrigation with mulch is beneficial to farmers.</b>								
8	Constraints identified and feedback for research	The cost of plastic mulch is high.								
9	Process of farmers participation and their reaction	Initial cost of cultivation is high.								



Farmers Practice (FP) : Furrow irrigation without mulch



Technology option-I : Drip Irrigation in row without mulch.



Technology option-I & Technology option-II: Drip Irrigation in without mulch. & with mulch

## OFT-3

1.	Title of On farm Trial	Assessment of different value addition technologies of Jackfruit for Income Generation
2.	Problem diagnosed	Wastage of Jackfruits during peak season
3.	Details of technologies selected for assessment/refinement	<p>: <b>T1</b> Farmers Practice- Preparation of Pickles By curing of raw pieces of Jackfruit (peeled) with Turmeric Powder+ salt + addition of Spices + Oil+ Sun drying</p> <p><b>T2</b> - Preparation of Chips By Blanching of cut pieces +Sun drying followed by addition of Salt + one pinch Turmeric + KMS(0.5%)</p> <p><b>T3</b> – Preparation of Jackseed Burfi by addition of milk Powder + Sugar + Elaichi Powder +Chocolate Powder + Ghee</p>
4.	Source of Technology	Home Science Department, BAU, Ranchi & Technical Bulletin No. 41, ICAR, Goa
5.	Production system and thematic area	Value Addition & Income Generation
6.	Performance of the Technology with performance indicators	<p>a) Supply of nutrition to families.  (b) Support of farm family income.  C) promote jackfruit as local food.  Pickle making techniques with jackfruit and food labeling is popularizing more among the farm families.</p>
7.	Final recommendation for micro level situation	<p>it is recommended that preparation techniques of jackfruit pickle its labeling and packaging among the SHGs is promoted to get FSSAI number</p> <p>It is also recommended that the techniques of value addition can be initiated as entrepreneurship development among the rural youth and SHGs from local &amp; underutilized fruits.</p>
8.	Constraints identified and feedback for research	Unaware of rich source of nutrients present in jackfruits.
9.	Process of farmers participation and their reaction	Farmwomen are happy to adopt this easy techniques in farm family as well as for income generation by locally available jackfruits.

*Thematic area:*

Problem definition: Wastage of Jackfruits during peak season

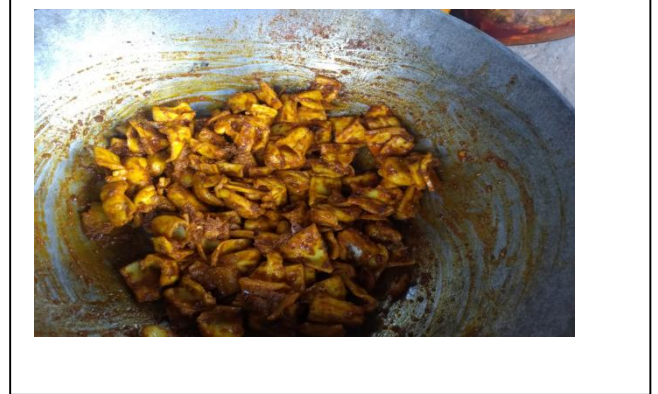
Technology assessed: Jackfruit Chips & Jackseeds Burfi making

Table: 1

Technology option	No. of trials	Shelf Life			incidence of microbial Spoilage (%)	Production/ unit	Cost of cultivation (Rs./Kg)	Gross return (Rs/kg)	Net return (Rs./kg)	BC ratio
		Organoleptic Test (Color, Texture, Flavor , acceptability) After 2 months	Organoleptic Test (Color, Texture, Flavor , acceptability)After 4 months	Organoleptic Test(Color, Texture, Flavor , acceptability) After 6 months						
Fresh used as vegetables/fruits/pickle Making	4	Fair	Fair	Fair	40-45%	10Kg	40.00	90.00	50.00	2.2:1
T2 - Preparation of Chips By Blanching of cut pieces +Sun drying followed by addition of Salt + one pinch Turmeric + KMS(0.5%)	4	Excellent	Good	Fair	20%	10Kg	70.00	180.00	110.00	2.5:1
<b>T3</b> – Preparation of Jackseed Burfi by addition of milk Powder + Sugar + Elaichi Powder +Chocolate Powder + Ghee	4	Excellent	Good	Fair	1%	10Kg	75.00	200.00	125.00	2.6:1

Result: For income generation among Rural youth & SHGs Jackseed Burfi making by roasting (T3)was found more remunerative and nutritive Packaging through SHGs were more accepted & profitable.

### VALUE ADDITION OF JACKFRUIT



### T3-VALUE ADDITION OF JACKFRUIT



## OFT-4

1.	Title of On farm Trial	Assessment of QPM based Balahar/ weaning food for Child Health Nutrition.
2.	Problem diagnosed	Lack of Dietary Knowledge which leads poor choice of food leads to poor health of children
3.	Details of technologies selected for assessment/refinement	: <b>T1</b> - Farmers Practice- T1. Inadequate Dietary pattern unbalanced intake of nutrients and no weaning/ healthy food practices.  T2 - Roasted maize flour 60 gm + roasted chhana flour20 gm + Sugar 20 gm + with ½ cup milk  T3- QPM (malted Roasted maize flour 50 gm + sprouted & roasted green gram flour25 gm + White til 10 gm + groundnut roasted 10 gm+Sugar 20 gm + with ½ cup milk.
4.	Source of Technology	AICRP Directorate of Maize research, ICAR  (Quality Protein Maize Products for human nutrition by Dr, Usha Singh DRRPCAU, Pusa, Bihar.
5.	Production system and thematic area	Weaning food for children (6- months- 3 years) low cost malted ready to eat (RTE) for quality protein rich food value addition.
6.	Performance of the Technology with performance indicators	(a)Shelf life & Product Recovery  (b) Organoleptic test  (c) Cost /benefit ratio
7.	Final recommendation for micro level situation	it is recommended that QPM based balahar is nutritious & delicious for children& among the SHGs were promotedfor income generation and can be initiated as entrepreneurship development among the rural youth and SHGs.
8.	Constraints identified and feedback for research	Lack of Proper Market facility and unaware of rich source of nutrients present in Jackfruits.
9.	Process of farmers participation and their reaction	Farmwomen were happy to adopt this easy techniques in farmfamily as well as for income generation by locally available balahar.

*Thematic area:*

Problem definition: Lack of Dietary Knowledge which leads poor choice of food leads to poor health of children

Technology assessed: Assessment of QPM based Balahar/Weaning food for child health Nutrition

Table: 1

Technology option	No. of trials	Shelf Life			incidence of microbial Spoilage (%)	Production/unit	Cost of cultivation (Rs./Kg)	Gross return (Rs/kg)	Net return (Rs./kg)	BC ratio
		Organoleptic acceptability in terms of Taste (%)	Organoleptic acceptability in terms of color (%)	Organoleptic acceptability in terms of General Acceptability (%)						
Farmers Practice-T1. Inadequate Dietary pattern unbalanced intake of nutrients and no weaning/ healthy food practices.	10	40	50	50	30-40%	10Kg	40.00	80.00	40.00	2:1
T2 - Roasted maize flour 60 gm + roasted chhana flour 20 gm + Sugar 20 gm + with ½ cup milk	10	60	60	65	20-30%	10Kg	50.00	125.00	75.00	2.5:1
T3- QPM (malted Roasted maize flour 50 gm + sprouted & roasted green gram flour 25 gm + White til 10 gm + groundnut roasted	10	80	70	75	10-20%	10Kg	65.00	200.00	135.00	2.7:1

10 gm+Sugar 20 gm + with ½ cup milk										
---	--	--	--	--	--	--	--	--	--	--

Result: Balahar prepared from QPM rich in Lysocine & Tryptophan were liked by the children of age group 2-5 years of age and mothers were also appreciated For income generation among SHGs, (T3)was found more remunerative and nutritive through SHGs were more accepted & profitable. There were significant change in anthropometric measurement of children compared to control group.

**OFT-5**

1 .	<b>TITLE OF ON FARM TRIAL</b>	<b>Study the effectiveness of different training tools after combining on yield of Rice</b>
2 .	Problem diagnose	Lack of knowledge of farmers not adopted appropriate rice technology resulting reducing yield and income.
3 .	Details of technologies selected for assessment/refinement	<b>Farmers Practice (FP):</b> None exposure <b>Technology option-I :</b> One day training organised at farmers field on package & practices of rice. <b>Technology option-II :</b> One day training organised at KVK supported with literature + exposure visit on successful rice grower farm + Demonstration
4 .	Source of Technology	BAU. Ranchi
5 .	Production system and thematic area	Crop Production
6 .	Performance of the Technology with performance indicators	
7 .	Final recommendation for micro level situation	The yield and B:C ratio of training and demonstration both ( Technological option 2) is more effective than one day training organised at farmers yield on package & practices of rice.
8 .	Constraints identified and feedback for research	Farmers does not know the package and practices of rice production. Therefore, farmers need to trained and exposed to the progressive farmers field with demonstration and exposure visit.
9 .	Process of farmers participation and their reaction	Farmers are selected on the basis of their farming practices and crops that they grow.

*Thematic area:*

Problem definition: Lack of knowledge of farmers not adopted appropriate rice technology

Technology assessed:

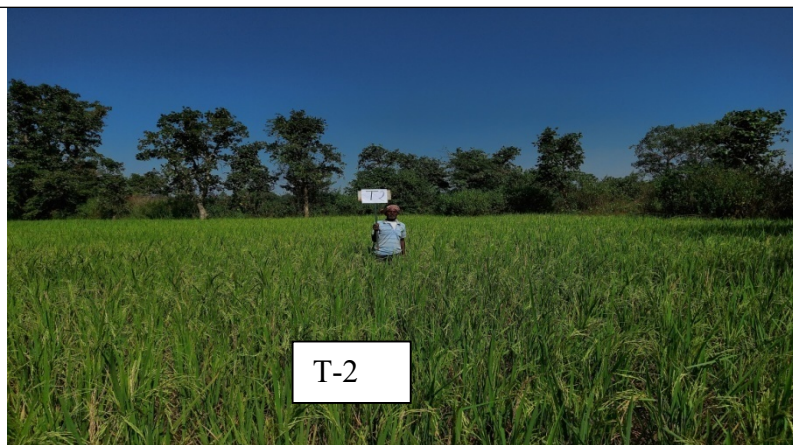
Table:

Technology option	No. of trials	Level of knowledge	Level of adoption	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC RATIO
Farmers Practice (FP): None exposure	3	<b>23%</b>	19%	27	23,000	43200	20,200	1.87:1
Technology option-I : One day training organised at farmers yield on package & practices of rice.		41%	34%	37	23,000	59200	36200	2.57:1
Technology option-II : One day training organised at KVK supported with literature + exposure visit on successful rice grower farm + Demonstration		59%	53%	42	24,500	67200	42700	2.74:1

Results: The yield and B:C ratio of training and demonstration both ( Technological option 2) is more effective than one day training organised at farmers yield on package & practices of rice.



T-1



T-2



T-3

## ON FARM TRIAL-6

1.	<b>TITLE OF ON FARM TRIAL</b>	<b>Management of Chilli Leaf Curl Disease in Kharif Season</b>
2.	Problem diagnose	(i) More infestation of leaf curl disease. (ii) Less market Value.
3.	Details of technologies selected for assessment/refinement	<b>Farmers Practice (FP)</b> : Spraying of Rogar @ 2 ml/l of water after disease incidence <b>Technology option-I</b> : Two Spray of Imidacloprid 17.8 SL @ 1 ml/ 3 liter of water at 10 days intervals <b>Technology option-II</b> : Two Spray of Acetamiprid 20% SP @ 1 gm/lit of water at 10 days of intervals.
4.	Source of Technology	Department of A Plant Pathology, BAU Ranchi
5.	Production system and thematic area	Vegetables-Pulse , Disease Management
6.	Performance of the Technology with performance indicators	<b>Crop standing</b>
7.	Final recommendation for micro level situation	The treatment TO1, Two sprays of imidacloprid 17.8 SL@ 1ml/3lit of water at 10 days intervals is more effective than famers practice and treatment number two i.e. two spray of Acetamiprid 20% SP @1gm/1Litre of water at 10 days of intervals.
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

*Thematic area:*

Problem definition:

Technology assessed:

Table:

Technology Assesses	Technical Parameters							Economic Parameters		
	Disease incidence	Average Plant height (cm)	No. of branches/ plant	No. of fruits / plant	Average weight of fruit (10 of 100 fruit weight)	Yield/ plant /plot and /ha (green fruit)	Early yield (first two picking	Gross income (Rs/ ha	Net income (Rs./ha)	B.C Ratio
<b>Farmer practice</b> :- Spraying of Roger@ 2ml/lit water after disease incidence	14.52	82.05	16	42	25.07	114qt	48	45600	20600	1:1.8
<b>TO1</b> – Two sprays of imidacloprid 17.8 SL@ 1ml/3lit of water at 10 days intervals.	12.31	87.7	25	66	31.05	139qt	85	55600	30600	1:2.20
<b>TO2</b> – Two sprays of Acetamiprid 20% SP @ 1gm/ 1 lit of water at 10 days of intervals.	16.42	84.21	22	62	28.12	135.5qt	80	54200	29200	1.2.16

Results- The treatment TO1, Two sprays of imidacloprid 17.8 SL@ 1ml/3lit of water at 10 days intervals is more effective than famers practice and treatment number two i.e. two spray of Acetamiprid 20% SP @1gm/1Litre of water at 10 days of intervals.

Farmer Practice



T-1



T-2

**OFT-7**

1 .	<b>TITLE OF ON FARM TRIAL</b>	<b>Content Analysis of the Farmers friendly print literature</b>
2 .	Problem diagnose	Low readership among farmers
3 .	Details of technologies selected for assessment/refinement	Farmers Practice (FP) : Low reading habit of extension literature Technology option-I Print Literature provided by DAO and NGOs Technology option-II : Print Literature provided by Krishi Vigyan Kendra in local language
4 .	Source of Technology	BAU. Ranchi
5 .	Production system and thematic area	<b>Rice - fellow -fellow</b>
6 .	Performance of the Technology with performance indicators	
7 .	Final recommendation for micro level situation	
8 .	Constraints identified and feedback for research	Farmers have no reading or very little reading habit due to illiteracy and lack of good literature in local language. KVK providing the technical literature in local dialect to understand the technology of the production
9 .	Process of farmers participation and their reaction	

*Thematic area: Capacity Building*

Problem definition: Low reading habit among farmers

Technology assessed:

<b>Farmers Practice</b>	Low reading habit of extension literature
<b>Technological Option 1:</b>	Print Literature provided by DAO and others
<b>Technological Option 2:</b>	Print Literature provided by Krishi Vigyan Kendra in local language

Table:

Technology option	No. of trials	Content of the literature	Format of the literature	Level of knowledge gained	Extent of increase in readership	Extent of adoption of farmers practices
Farmers Practice (FP) : Low reading habit of extension literature	10	Poor	Unsystematic	18%	14%	25%
Technology option-I Print Literature provided by DAO and Others		Good	Systematic	<b>37%</b>	31%	38%
Technology option-II : Print Literature provided by KVK in local language		Very good	Well designed	48%	46%	47%

Results: The gross return and net return is higher in case of farmers using printed literature provided by the KVK in local language than the print literature provided by the NGO and DAO to the farmers. Therefore print media in local language not only increase level of knowledge, but also increase extent of readership habit among farmers, thus leads to increase in level of adoption of new package of practices.

## OFT -8

1	TITLE OF ON FARM TRIAL	YIELD PERFORMANCE OF OYSTER MUSHROOM BY DIFFERENT SUPPLEMENTS.				
2	<b>Problem Identified:</b>	Low yield of Oyster mushroom				
3	<b>Details of technologies selected for assessment/ refinement</b>	Farmer Practice : Only use spawn and paddy straw. T1 - : Paddy straw + Good quality Pigeon Pea dal powder + Spawn T2 - : Wheat straw and spawn (Spewing & wheat straw )				
4	<b>Source of Technology:</b>	B.A.U.Ranchi/ B.A.U Sabour				
5	<b>Production system and thematic Area:</b>					
6	<b>Performance of the Technology with performance indicators</b>		Spawn run period	Days require for first harvesting	No. of Flushes	Average yield / bag in gram
		Farmer Practice	19.71	25.28	2	1770.85
		T <sub>01</sub>	16.42	22	2.8	3041.28
		T <sub>02</sub>	17.28	24.14	2.71	2706.71
7	<b>Final recommendation for micro level situation</b>	Paddy straw + Good quality Chick Pea dal powder + Spawn				
8	<b>Constraints identified and feedback for research</b>	Paddy straw + Good quality Pigeon Pea dal powder + Spawn is best .				
9	<b>Process of farmers participation and their reaction</b>	Oyster Mushroom perform best in Paddy straw + Good quality Pigeon Pea dal powder + Spawn				



Farmer practice



T-1



T-2

## OFT-9

1	<b>TITLE OF ON FARM TRIAL</b>	<b>Assessment of different communication channel for adoption of soil health card in Dhanbad district of Jharkhand.</b>
2	Problem diagnose	Farmers are not using soil health card for fertilizers application.
3	Details of technologies selected for assessment/refinement	<p><b>Technological option 1:</b> Recommendation of Fertilizer application according to soil health Card through verbal communication.</p> <p><b>Technological option 2:</b> Recommendation of fertilizer application according to Soil Health Card through SMS.</p> <p><b>Technological option 3:</b> Recommendation of fertilizer application according to soil Health Card Printing material and Group meeting.</p>
4	Source of Technology	ICAR, New Delhi
5	Production system and thematic area	<b>Rice - fellow –fellow and Capacity building</b>
6	Performance of the Technology with performance indicators	
7	Final recommendation for micro level situation	The yield and BC ratio of soil health card printing material and group meeting is more effective than recommendation of Soil Health Card through SMS and Verbal communication in fertilizer application in rice field
8	Constraints identified and feedback for research	
9	Process of farmers participation and their reaction	

## Thematic area: Capacity Building

Problem definition: Low reading habit among farmers

Technology assessed:

<b>Farmers Practice</b>	Recommendation of Fertilizer application according to soil health Card through verbal communication.
<b>Technological Option 1:</b>	Recommendation of fertilizer application according to Soil Health Card through SMS.
<b>Technological Option 2:</b>	Recommendation of fertilizer application according to soil Health Card Printing material and Group meeting.

Table:

Technology option	No. of trials	Adoption	Knowl edge	Attitude	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
<b>Technological option 1:</b> Recommendation of Fertilizer application according to soil health Card through verbal communication.	3	33%	42%	40%	32	22000	44800	22800	2.03:1
<b>Technological option 2:</b> Recommendation of fertilizer application according to Soil Health Card through SMS.		25%	35%	30%	35	22000	49500	27000	2.25:1
<b>Technological option 3:</b> Recommendation of fertilizer application according to soil Health Card Printing material and Group meeting.		43%	46%	45%	42	24000	58800	34800	2.45:1

Results: The yield and BC ratio of soil health card printing material and group meeting is more effective than recommendation of Soil Health Card through SMS and Verbal communication in fertilizer application in rice field

### 3.1.2 Technology Assessed by KVK (Discipline wise)

Sl. No.	Discipline	Thematic areas	No. of the technologies (Technology Interventions)	No. of trials	No. of Locations
1.	Crop Production				
2.	Livestock				
3.	Enterprises				
4.	Women Empowerment				

### 3.2 Achievements of Frontline Demonstrations

#### A. Details of FLDs conducted during the year

##### Cereals

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration						Reasons for shortfall in achievement			
				Proposed	Actual	SC		ST		Others			Total		
1.						M	F	M	F	M	F	M	F	T	
2.															
3.															
4.															
5.															

##### Details of farming situation

Sl. No.	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 <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O					

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

## B. Performance of FLD

**Oilseeds:**

Frontline demonstrations on oilseed crops

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

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

\*\* BCR= GROSS RETURN/GROSS COST

**Pulses**

Frontline demonstration on pulse crops

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

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

\*\* BCR= GROSS RETURN/GROSS COST

**Other crops**

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Total																	

**Livestock**

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

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







01	Groundnut	Local	8.9	350	123	1210	K-6 + Line Sowing + Seed treatment	56	20	16.4	11.3	14.47	44.9	54.9	26.5
02	Sesame	Local	3.9	50	70	360	RT-346 + Line sowing +Seed Treatment + IPM	52	20	5.8	4.1	4.94	23.6	22.6	13.8
03	Mustard	Local	6.1	290	115	990	Pusa-26 + Line Sowing + Use of Sulphur @ 20 kg/ha + IPM	278	110	10.4	6.8	9.6	38.9	48.3	21.8

### 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	Groundnut – K-6 + Line Sowing + Seed treatment	28500	46900	18400	1.64:1	36700	76300	39600	2.07:1

2.	Sesame – RT-346 + Line sowing +Seed Treatment + IPM	14900	29200	14300	1.95:1	16800	37100	20300	2.20:1
3	Mustard - Pusa-26 + Line Sowing + Use of Sulpher @ 20 kg/ha + IPM	16100	27500	11400	1.71:1	21800	43200	21400	1.98:1

### 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)
01	Groundnut – K-6 + Line Sowing + Seed treatment	28940 Kg	400 Kg	Rs. 53/Kg	80 Kg	36 Kg	<ul style="list-style-type: none"> <li>• Use for own consumption</li> <li>• Farming</li> <li>• Education</li> <li>• Social activity</li> </ul>	70 Man days/House hold
02	Sesame – RT-346 + Line sowing +Seed Treatment + IPM	9880	170 Kg	Rs.75/ Kg	10 Kg	10 kg	<ul style="list-style-type: none"> <li>• Use for own consumption</li> <li>• Health</li> <li>• Education</li> <li>• Social activity</li> </ul>	35 Man days/House hold
03	Mustard - Pusa-26 + Line Sowing + Use of Sulpher @ 20 kg/ha + IPM	1,05,600 Kg	370 Kg	44/kg	10 Kg	50 Kg	<ul style="list-style-type: none"> <li>• Use for own consumption</li> <li>• Farming</li> <li>• Education</li> <li>• Health</li> </ul>	35 Men days/House hold

**D. Oilseeds 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
01	Groundnut – K-6 + Sowing on bed + Seed treatment + Bio-fertilizer	Suitable in upland in Kharif	Yield is good	Yes	No	Acceptable to all farmers of group	No
02	Sesame – RT-346 + Line Sowing + seed treatment	Suitable in upland in Kharif	Yield is good Demand in marketing due to White colour Fruiting Start from Roots of plant	Yes	Oil Content is low in comparison to Black Til	Acceptable to all farmers of group	In proper seed rate the yield can be get maximum
03	Mustard - Pusa-26 + Line Sowing + Use of Sulphur @ 20 kg/ha	Suitable for Upland and medium land in Rabi season	Yield is good	Yes	No	Acceptable to all due to high yield	October sown give better yield.

**E. Specific Characteristics of Technology and Performance**

Specific Characteristic	Performance	Performance of Technology vis-a vis	Farmers Feedback
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		Local Check	
yield	More Branching	Good	Suitable in up land
Yield	Pod setting start from root of the plant	Good	Yield is more than local variety

**F. Extension activities under FLD conducted:**

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
<b>01 Groundnut</b>	<b>Training</b>	<b>15.07.2020 , Chutiaro</b>	<b>79</b>
	<b>Field Day</b>	<b>08.10.2020, Kharni</b>	<b>28</b>
<b>02 Sesame</b>	<b>Training</b>	<b>25.08.2020 Baliapur</b>	<b>52</b>
	<b>Field Day</b>	<b>27.11.2020 Aankhdwara</b>	<b>26</b>
<b>03 Mustard</b>	<b>Training</b>	<b>19.10.2020, 21.10.2020 &amp; 27.10.2020 Palani, Sitalpur &amp; Salpatra</b>	<b>132</b>
	<b>Field Day</b>	<b>27.01.2021 , Palani</b>	<b>16</b>

**B. Sequential good quality photographs (as per crop stages i.e. growth & development)****a. Crop- Groundnut****a. Crop: Sesame:**

### C. Crop: Mustard



## CLUSTER FRONTLINE DEMONSTRATION OF PULSE CROP (2020-21) PERFORMANCE DATA REPORTING

1. Name of KVK:- Krishi Vigyan Kendra, Dhanbad  
 3. Host Institution:- Birsa Agricultural University Ranchi  
 5. District:- Dhanbad  
 7. Performance of the demonstration:- Good

2. Year of establishment:- 2005  
 4. Address:- KVK, Baliapur, Dhanbad  
 6. State:-Jharkhand

**Season: Kharif 2020**

**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
01	Pigeon Pea	Chati	8.9	310	128	1210	IPA- 203 +Line sowing + Seed treatment	31	10	16.20	10.30	14.41	45.92	54.12	26.23

**Season: Rabi & Summer 2020-21**

**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

01	Chick Pea	Local	10.3	370	420	1370	GNG-1581 +Line sowing+ Seed treatment with rizobium	31	10	17.7	13.2	16.8	46.42	44.82	27.08
02	Lentil	Local	5.20	80	260	1080	IPL-316 +Line sowing+ Seed treatment with rizobium	35	10	9.3	7.1	8.4	53.3	41.02	20.0
03	Green Gram (Summer)	Local					HUM-16 + Line sowing + Seed treatment	28	10	Crop Standing					

### C. 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	Pigeon Pea IPA- 203 +Line sowing + Seed treatment	29500	53400	23900	1.81:1	33000	86500	53500	2.62:1

2.	Chick Pea GNG-1581 +Line sowing+ Seed treatment with rizobium	22000	52500	30500	2.39:1	29000	85500	56500	2.95:1
3.	Lentil IPL-316 +Line sowing+ Seed treatment with rizobium	17500	26500	9000	1.51:1	20500	42800	22300	2.08:1
4.	Green Gram HUM-16 +Line sowing + Seed treatment	-	-	-	-	-	-	-	-

#### D. 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)
01	Pigeon Pea- IPA- 203	14410 kg	300 kg	70/kg	40 kg	60 kg	<ul style="list-style-type: none"> <li>• Use for own consumption</li> <li>• Medicine</li> <li>• Education</li> </ul>	115 Man days/House hold

02	Chick Pea GNG-1581 + Line sowing+ Seed treatment with rizobium	16800 kg	300 kg	49/kg	140 kg	70 kg	<ul style="list-style-type: none"> <li>• Use for own consumption</li> <li>• Medicine</li> <li>• Education</li> </ul>	40 Man days/House hold
03	Lentil IPL-316 +Line sowing+ Seed treatment with rizobium	8400 kg	150 kg	48/ kg	30 kg	30 kg	<ul style="list-style-type: none"> <li>• Use for own consumption</li> <li>• Medicine</li> <li>• Education</li> </ul>	30 Man days/House hold
4.	Green Gram- HUM-16 (Summer)	-	-	-	-	-	-	-

#### E. Pulse 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
01	Pigeon Pea- IPA- 203	Yes	Yes	Yes	No	Yes	No
02	Chick Pea GNG-1581 +Line sowing+ Seed treatment with rizobium	Yes	Yes	Yes	No	Yes	No
03	Lentil IPL-316 +Line	Yes	Yes	Yes	No	Yes	No

	sowing+ Seed treatment with rizobium						
4.	Green Gram-HUM-16 (Summer)	-	-	-	-	-	-

#### F. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Branching of Plant	Profuse branching of the Plant.	Line sowing behind the plough give the better result in branching.	Farmers are needed to small instrument for easily sowing of chickpea.
Variety	The variety gave better result in medium land situation after harvesting of Paddy.		

#### G. Extension activities under FLD conducted:

Sl. No./Crop	Extension Activities organized	Date and place of activity	Number of farmer attended
01 Pigeon Pea	Training (KVK) Field Day	13.06.2019, KVK Dhanbad 21.12.2020, Salpatra	30 19

02 Chick Pea	Training (KVK) Field Day	28.10.2020, KVK Dhanbad 17.02.2021, Bera Niyamatpur	28 14
03 Lentil	Training (KVK) Field Day	05.11.2020, KVK Dhanbad 19.01.2021, Baliapur	25 13
04 Green Gram (Summer)	Training (KVK) Field Day	-	-

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

#### a. Crop – Pigeon Pea



**a. Crop : Chick Pea****b. Crop : Lentil**

















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													
<b>IX. Production of Inputs at site</b>													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production	3	41	12	53	13	1	14	16	2	18	70	15	85
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													
<b>X. Capacity Building and Group Dynamics</b>													
Leadership development													
Group dynamics													
Formation and Management of SHGs	2	7	47	54	-	-	-	-	2	2	7	49	56
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													
<b>XII. Others (Pl. Specify)</b>													
<b>TOTAL</b>	<b>30</b>	<b>396</b>	<b>232</b>	<b>628</b>	<b>76</b>	<b>60</b>	<b>136</b>	<b>104</b>	<b>56</b>	<b>160</b>	<b>576</b>	<b>348</b>	<b>924</b>

**E)RURAL YOUTH (Off Campus)**

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production	1	7	11	18	1	-	1	1	-	1	9	11	20
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops	1	6	4	10	7	8	15	4	4	8	17	16	33
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
<b>TOTAL</b>	<b>2</b>	<b>13</b>	<b>15</b>	<b>28</b>	<b>8</b>	<b>8</b>	<b>16</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>26</b>	<b>27</b>	<b>53</b>

**F) Extension Personnel (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			







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			
Others, if any													
TOTAL													
<b>VI. Agril. Engineering</b>													
Installation and maintenance of micro irrigation systems	1	24	7	31	5	-	5	6	3	9	35	10	45
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements	1	12	-	12	4	-	4	7	-	7	23	-	23
Small scale processing and value addition													
Post-Harvest Technology													
Others, if any													
TOTAL													
<b>VII. Plant Protection</b>													
Integrated Pest Management	1	19	5	24	3	-	3	-	3	3	22	8	30
Integrated Disease Management	4	72	21	93	11	-	11	10	-	10	93	21	114
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL													
<b>VIII. Fisheries</b>													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its 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													
TOTAL													
<b>IX. Production of Inputs at site</b>													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production	3	41	12	53	13	1	14	16	2	18	70	15	85
Organic manures production	5	84	99	183	-	-	-	56	11	67	140	110	250
Production of fry and fingerlings													
Production of Bee-colonies and wax													



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
of orchards													
Value addition	2	4	30	34	3	4	7	-	14	14	7	48	55
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery/ Nutritional Gardening	1	-	18	18	-	4	4	-	8	8	-	30	30
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
<b>TOTAL</b>	<b>14</b>	<b>174</b>	<b>111</b>	<b>285</b>	<b>25</b>	<b>12</b>	<b>39</b>	<b>21</b>	<b>30</b>	<b>51</b>	<b>222</b>	<b>153</b>	<b>375</b>

### iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	28	6	34	9	4	13	7	6	13	44	16	60
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition	1	-	20	20	-	9	9	-	10	10	-	39	39

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	1	6	5	11	-	-	-	-	-	-	6	5	11	
Soil Testing														
Management in farm animals														
Livestock feed and fodder production														
Household food security	2	-	37	37	-	7	7	-	16	16	-	60	60	
Women and Child care														
Low cost and nutrient efficient diet designing	1	-	16	16	-	5	5	-	9	9	-	30	30	
Production and use of organic inputs														
Gender mainstreaming through SHGs														
Crop intensification														
Others if any														
<b>TOTAL</b>	<b>6</b>	<b>34</b>	<b>84</b>	<b>118</b>	<b>9</b>	<b>25</b>	<b>34</b>	<b>7</b>	<b>41</b>	<b>48</b>	<b>50</b>	<b>150</b>	<b>200</b>	





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

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
H Sc	EF	Training awareness on Nutri-thali, Nutri- garden	1	On	-	30	30	-	11	11
H Sc	EF	Training awareness on Nutri-thali, Nutri- garden	1	On	-	30	30	-	12	12
H Sc	RY	Nutritional	1	On	-	30	30	-	12	12

		gardening								
PP	Pf	Scientific cultivation of mustard	1	On	27	-	27	7	-	7
Engg	Pf	Different implements used in preparation of field	1	Off	23	-	23	11	-	11
Ext	Pf	Soil sample collection and importance of soil testing for crops	1	Off	28	-	28	10	-	10
PP	Pf	Scientific cultivation of mustard	1	On	31	-	31	11	-	11
H Sc	EF	Women friendly drudgery reduction implements	1	On	-	30	30	-	14	14
PP	Pf	Scientific cultivation of mustard	1	On	30	3	33	6	3	9
PP	Pf	Disease management in Tomato	1	On	5	19	24	-	-	-
PP	RY	Mushroom cultivation Technology	4	On	27	3	30	7	-	7
Ext	Pf	Scientific cultivation of Wheat	1	Off	24	8	32	-	-	-
PP	PF	Cultivation of Gram	1	Off	28	-	28	5	-	5
Engg	Pf	Scientific cultivation of mustard	1	Off	37	14	51	9	7	16
PP	Pf	Cultivation of Lentil	1	Off	23	6	29	3	2	5
PP	RY	Mushroom cultivation Technology	4	On	33	-	33	3	1	4
Spon	RY	Vegetable Production Techniques	4	On	25	-	25	3	-	3
H.sc	Pf	Food Processing of seasonal fruits and vegetables	1	Off	-	30	30	-	15	15
Eng	RY	Water management in vegetables	1	On	22	-	22	5	-	5
H Sc	Pf	Value addition of Mashroom	1	Off	-	36	36	-	13	13
Eng	Pf	Water management in Rabi crops	1	Off	25	4	29	6	1	7
H Sc	Pf	Introduction of drudgery reducing implements farm women	1	Off	-	25	25	-	7	7
PP	RY	Mushroom cultivation techniques	4	On	11	22	33	2	10	12
Ext	Pf	Bee Keeping	1	On	44	1	45	3	1	4
Ext	Pf	Scientific cultivation of wheat	1	Off	25	-	25	3	-	3
Eng	EF	Water management in Rabi crops and sowing of wheat by zero tillage	1	Off	44	16	60	16	10	26
Ext	Pf	Formation of SHG and its management	1	Off	7	37	44	-	2	2
Ext	EF	Training on Soil	1	On	6	5	11	-	-	-

		testing to RAWE students								
Head	Pf	Soil health card	3	On	27	6	33	19	4	23
Ext	PF	Vermi compost Production Technology and organic farming	1	Off	34	4	38	7	-	7
Ext	Pf	Soil Testing and its importance in fertilizer Management	1	Off	33	-	33	11	-	11
Head	Pf	Vermi compost production	2	Off	20	11	31	16	3	19
Engg	PF	Water Management in Rabi Crops	1	Off	28	6	34	11	2	13
Ext	Pf	Summer Production Technology	1	Off	38	-	38	5	-	5
PP	PF	Brinjal Insect pest Control	1	On	22	8	30	3	3	6
H Sc	PF	Design and Development of low cast recipe	2	Off	-	21	21	-	15	15
Hsc	PF	Nutrition Gardening	1	Off	-	30	30	-	17	17
H Sc	RY	Value addition of Soyabean	3	On	7	18	25	3	6	9
Spon	RY	Bee Keeping	3	On	7	2	9	2	-	2
Ext	RY	Bee Keeping	3	On	20	10	30	1	1	2
PP	PF	Disease of Tomato	1	Off	21	9	30			
Engg	PF	Different Irrigation methods in Rabi vegetables	1	Off	35	10	45	9	-	9
Ext	Pf	Production of Vermicompost	1	Off	20	-	20	11	3	14
Engg	Pf	Water Management in Rabi crops	1	On	26	3	29	4	-	4
Ext	PF	Formation of SHG and its economic activities	1	On	-	30	30	3	-	3
PP	Pf	Integrated pest and disease management	3	On	33	2	35	4	-	4
Engg	RY	Cultivation of vegetables through drip irrigation	3	On	17	13	30	9	9	18
Spon	Pf	Compost making by use of Parthenium	2	On	21	29	50	-	-	-
Ext	Pf	Formation of SHG of Mushroom	1	Off	-	12	12	-	-	-
PP	RY	Mushroom production	1	Off	9	11	20	2	-	2
Spon	Pf	Compost making by use of Parthenium	2	On	20	30	50	-	-	-
H Sc	Pf	Food and Nutrition Security	2	Off	-	20	20	-	-	-
H Sc	Pf	Value addition of Tomato for income generation	1	Off	9	13	22	4	7	11
Spon	Pf	Compost making by use of Parthenium	2	On	33	17	50	8	2	10
H Sc	RY	Grading & Packing of fruits and	2	Off	17	16	33	21	12	34

		vegetables								
PP	RY	Mushroom Cultivation Techniques	5	On	25	5	30	-	1	1
Spon	Pf	Compost making by use of Parthenium	2	On	21	29	50	19	-	19
Ext	Pf	Scientific cultivation of cucurbits	1	Off	28	-	28	7	-	7
H Sc	Pf	Farm women empowerment through agricultural implements	2	On	-	24	24	-	-	-
Ext	PF	Soil sample collection Techniques and its importance	1	Off	50	3	53	31	3	34
Spon	Pf	Compost making by use of Parthenium	2	On	45	5	50	20	-	20
Ext	RY	Production techniques of summer vegetables	5	On	2	23	25	-	-	-
H. Sc	PF	Crop cutting harvesting and value addition & marketing	2	Off	12	27	39	7	21	28
H Sc	PF	Value addition of seasonal vegetables	1	On	23	7	30	-	12	12
PP	PF	Disease of Tomato	1	Off	17	8	25	-	8	8
H Sc	PF`	Value addition of Tomato For SHGs Entrepreneurship	2	Off	-	35	35	-	-	-
Engg	PF	Water management in summer vegetables	3	On	21	9	30	6	-	6
H Sc	EF	Nutritional Gardening & Food security & Mushroom value addition	3	On	-	39	39	-	19	19

### 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			No. of persons employed elsewhere
				Male	Female	Total	Type of units	No. of units	No. of persons employed	
Mushroom Cultivation	Mushroom Cultivation	Mushroom cultivation techniques	4	113	44	157	Production unit	16	16	8
Vegetable Production Techniques		Vegetable Production Techniques	4	25	-	25	-	-	-	-
Bee Keeping	Bee Keeping	Bee Keeping	3	36	3	39	-	-	-	-

\*training title should specify the major technology /skill transferred





B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	37
Radio talks	0

TV talks	0
Popular articles	0
Extension Literature	14
Other, if any	

### C. Celebration of important days I

Celebration of Important Days	No. of activities	Farmers				Extension Officials			Total		
		M	F	Total	SC/ ST (% of total)	M	F	Total	M	F	Total
Republic day (26 <sup>th</sup> Jan.)	1	15	8	23	15	7	2	9	22	10	32
International Women's Day (8 <sup>th</sup> Mar.)	4	12	41	53	11	3	1	4	15	42	57
Ambedkar Jayanti (14 <sup>th</sup> Apr.)											41
International Yoga Day (21 <sup>st</sup> Jun.)	1	21	6	27	14	12	2	14	33	8	71
Independence Day (15 <sup>th</sup> Aug.)	1	42	16	58	12	10	3	13	52	19	117
Parthenium Awareness Week (16 <sup>th</sup> to 22 <sup>nd</sup> Aug.)	8	156	41	197	11	14	6	20	170	47	3056
Hindi Diwas (14 <sup>th</sup> Sep.)	2	15	7	22	3	7	1	8	22	8	40
Gandhi Jayanti (2 <sup>nd</sup> Oct.)	1	28	11	39	14	7	3	10	35	21	52
Mahila Kisan Diwas (15 <sup>th</sup> Oct.)	1	2	35	37	5	1	2	3	3	37	244
World Food Day (16 <sup>th</sup> Oct.)	1	25	19	44	6	6	2	8	31	21	26
Vigilance Awareness Week (27 <sup>th</sup> Oct. to 2 <sup>nd</sup> Nov.)	7	178	56	234	16	8	2	8	186	58	3342
National Unity Day (31 <sup>st</sup> Oct.)	1	15	1	16	0	9	1	10	24	2	51
World Science Day (10 <sup>th</sup> Nov.)											59
National Education Day (11 <sup>th</sup> Nov.)	4	8	17	25	2	6	2	8	14	19	
National Constitution Day (26 <sup>th</sup> Nov.)	2	25	8	33	3	6	3	9	31	11	
World Soil Day (5 <sup>th</sup> Dec.)	1	38	0	38	5	6	2	8	43	8	
Kisan Diwas (23 <sup>rd</sup> Dec.)	1	44	1	45	6	8	6	14	52	7	





#### D. Interaction/Live telecast programme of Hon'ble PM/Hon'ble AM

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
1	29.08.2020	Inauguration of Academic and Administrative Building of Rani Lakshmi Bai Central Agricultural University Jhansi"	Interaction of Hon'ble PM	36	5	0	41
2	10.09.2020	Foundation laying of various academic facilities and inauguration of " <i>School of Agri-business and Rural Development</i> " of Dr. Rajendra Prasad Central Agricultural University, Samastipur Bihar	Interaction of Hon'ble PM	25	5	0	30
3	17.09.2020	Capacity Development of Anganwadi Workers & Farm Women on Poshan	Interaction of Hon'ble AM	32	5	-	37
4	03.10.2020	Interaction with KVKs by Hon'ble AM	Interaction of Hon'ble AM	-	7	-	7
5	25.12.2020	PM Kisan Nidhi Programme	Interaction of Hon'ble PM	68	10	-	78



### 3.5 a. Production and supply of Technological products

#### *Village seed*

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

#### *KVK farm*

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided			
				SC	ST	Other	Total
Paddy	25	IR-64D	110000				
Paddy	40	Rajendra Massoori	176000				
Mustard	1.01	Pusa-26	10200				
Wheat	5.85	DBW-187	26910				
<b>Grand Total</b>	<b>71.86</b>		<b>3,23,110</b>				

### Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided			
				SC	ST	Other	Total
<b>Vegetable seedlings</b>							
Cauliflower							
Cabbage							
Tomato							
Brinjal							
Chilli							
Onion							
Others							
<b>Fruits</b>							
Mango							
Guava							
Lime							
Papaya							
Banana							
Others							
<b>Ornamental plants</b>							
Medicinal and Aromatic							
Plantation							
Spices							
Turmeric							
Tuber							
Elephant yams							
Fodder crop saplings							
Forest Species							
Others, pl.specify							
<b>Total</b>							

### Production of Bio-Products

Name of product	Quantity	Value (Rs.)	No. of Farmers benefitted			
	Kg		SC	ST	Other	Total
Bio-fertilizers						
Bio-pesticide						
Bio-fungicide						
Bio-agents						
Others, please specify.						
<b>Total</b>						

**Production of livestock materials**

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted			
				SC	ST	Other	Total
<b>Dairy animals</b>							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
<b>Small ruminants</b>							
Sheep							
Goat							
Other, please specify							
<b>Poultry</b>							
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
<b>Piggery</b>							
Piglet							
Hog							
Others (Pl. specify)							
<b>Fisheries</b>							
Indian carp							
Exotic carp							
Mixed carp							
Fish fingerlings							
Spawn							
Others (Pl. specify)							
<b>Grand Total</b>							

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

i) Name of Seed Hub Centre:

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

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			Category of Seed(F/S, C/S)
			Target	Area sown (ha)	Production	

Kharif 2020						
Rabi 2020						
Summer/Spring 2020						

### iii) Financial Progress

Fund received (2016-17, 2017-18 and 2019, 2020)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2016-17				
2017-18				
2019				
2020				

### iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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

Item	Title	Author's name	Number	Circulation
Research paper	Role of Hydroponics towards Quality Vegetable Production: An Overview	Satya Prakash, Rajat Singh, A.R. Kumari & Adarsh Kumar Srivastava	International Journal of Current Microbiology and Applied Sciences ISSN: <b>2319-7706</b> <b>Special Issue-10 pp. 252-259</b>	
Seminar/conference/symposia papers				
Books	Programmes and Schemes in agriculture	Adarsh Kumar Srivastava Ashok Kumar	ISBN978-81-925875-6-8	500
	Ethnic Fermented Foods and Beverages of Bihar & Jharkhand: Science History and Culture	Usha Singh, Seema Singh &		500
Bulletins	Versa Jal Sarakshan Evam Jharkhand Me Versa Aadharit Kheti Ki Unnat Taknik	Adarsh Kumar Srivastava, Rajeev Kumar, Lalit Kumar Das, and Navin Kumar	Technical bulletin	500
	Drip Sichai Pradali – Kisano Ke Liye Ek Vardhan	Rajeev Kumar, Lalit Kumar Das, Adarsh Kumar Srivastava, and Navin Kumar	Technical bulletin	500
	Tapak Sichai (Jal Ka Kushal Upyog)	Rajeev Kumar, Adarsh Kumar Srivastava, Lalit Kumar Das and Navin Kumar	Technical bulletin	500


	Milky Mushroom	Navin kumar, Adarsh Kumar Srivastava, Rajeev Kumar		500
News letter				
Popular Articles				
Book Chapter				
Extension Pamphlets/ literature	Rain water harvesting & advanced method of irrigation.	Dr. Rajeev Kumar Dr. A Mishra		1000
	SHG formation, regulation & its work.	Dr. A .K. Srivastava		1000
	Integrated pest management in veg	Sri Navin Kumar		1000
	Grain storage at Household level	Dr.Rajeev Kumar Smt. Anjali Mishra		1000
	.Farmation of Self Help Groups and their Function	Dr. A .K. Srivastava		1000
	Tamater ke Parirakshit Utpad	Dr. Seema Singh & Sri Lalit Kumar Das		1000
	Bhojan ko swadist santulit aur paushtik banana me upyogi hai hari pattedar sabji	Dr. Seema Singh & Sri Lalit Kumar Das		1000
	Sabjion ka Parirakshan	Dr. Seema Singh & Sri Lalit Kumar Das		1000
	Mahilaon ke Liye Paustik Khadya Padardh Poshan Ki Awashyakta	Dr. Seema Singh		1000
	Hari Pattedar Sabjion ka Paustik rup se Matawa	Dr. Seema Singh		1000
Technical reports	Annual Report. 19-20			50
	Annual Action Plan - 2020-21			50
Electronic Publication (CD/DVD etc)	Dhan dhanya dhanbad – an impact assessment of KVK, Dhanbad	KVK Dhanbad		100
	SRI—A Film on Sri Technology by KVK, Dhanbad			100
TOTAL				

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

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

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	E-Training	“Extension Strategy For Waste Management In Agriculture”	Dr. Rajeev Kumar Scientist ( Agril. Engg.)	01-04 .9.2020	Extension Education Institute, Nilokheri, Haryana (CCS Haryana Agricultural University, Hisar)
2.	National Webinar	“Recent Trends in Food Processing and Preservation”	Dr. Rajeev Kumar Scientist ( Agril. Engg.)	26-27. .9.2020	NIT, Rourkela, Odisha
3.	National Webinar	“ Hydroinformatics for Smart Water Management in Agriculture”	Dr. Rajeev Kumar Scientist ( Agril. Engg.)	20.10. 2020	CAE, RPCAU, Pusa; NIH, Roorkee & ICAR-IARI, New Delhi
4.	E- Training	“Formation and Effective Functioning of Farmers Producer Organization”	Dr. Adarsh Kumar Srivastava Scientist ( agril. Extension)	18.08.2020	ICAR-Research Complex for Eastern Region, Patna, Bihar
5.	E -Training	“ Research Methodology for Social Sciences”	Dr. Adarsh Kumar Srivastava Scientist ( agril. Extension)	01-11.09.2020	Centre for Market Intelligence, Anand Agricultural University . Anand
6.	E- training	“Extension strategies for Climate Resilient Agriculture”	Dr. Adarsh Kumar Srivastava Scientist ( agril. Extension)	28-30.09.2020	Extension Education Institute, Nilokheri, Haryana (CCS Haryana Agricultural University, Hisar)
7.	Online Training	“Ethics & Values for Scientists & Technologists”	Dr. Seema Singh Scientist, Home Science	23-27 Nov, 2020	DST, Ministry of Sc. & Tech. GOI for Scientists & Technologists working in Government Sector
8.	E- Training	“Extension Strategies For Risk Management in Agriculture & Allied Sector.”	Dr. Seema Singh Scientist, Home Science	8-11 Sept, 2020	Extension Education Institute, Nilokheri, Haryana (CCS Haryana Agricultural University, Hisar)
9.	Online Training	“ Creativity & Innovation Management in Research”	Dr. Seema Singh Scientist, Home Science	26-30 October, 2020	DISHA, DST, Ministry of Sc. & Tech. GOI for Women Scientists & Technologists working in Government Sector.
10.	National Webinar	Industry- Institute Interaction	Dr. Seema Singh Scientist, Home Science	18, Dec, 2020	ESCI, Hyderabad
11	Online training	Training of Trainers on Conducting Community Based Participatory Research in Rural and Tribal areas	Dr. Adarsh Kumar Srivastava Scientist ( agril. Extension)	03-05.03.2021	National Institute of Rural development and Panchayati Raj (NIRDPR) Rajendra Nagar, Hyderabad 500030
12	National Seminar and Webinar				

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	Sh Dilip Kumar Sinha
Address	Village- Nichitpur, Post- Katras bazaar, Block – Baghmara, Dhanbad 828114
Contact details (Phone, mobile, email Id)	09234751973
Landholding (in ha.)	7 Acre
Name and description of the farm/ enterprise	Organic farming Vegetables- Tomato, Pea, Musk melon, beans, chillies
Economic impact	Annual income Rs. 2,00,000 ( Two Lakh)/ Year. He started two years ago organic farming with 2.5 acre of land and taken 4.5 acre of land on lease to multiply the practice of organic farming, He has no problem in selling the vegetable and fetching remunerative price from other farmers
Social impact	By adopting organic farming in the field he is respected by other farmers and farmers are consulting him for any problem in their field
Environmental impact	Due to practicing of organic farming in the there is no side effect of fertilizer and insecticidal use on the environment. He is continuously using FYM and vermin-compost and naturally made neem based insecticide to protect his crop
Horizontal/ Vertical spread	12-15 farmers adopted the organic farming
	

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

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

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

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

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)
1					

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

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

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

Sl. No	Name of the Equipment	Qty.
1	Atomic Absorption Spectro Photo meter	1
2	pH meter	1
3	Spectro photometer	1
4	Flame photometer	1
5	Soil Testing minikit	2

3.11.b. Details of samples analyzed so far:

Number of soil samples analyzed		
Through mini soil testing kit/labs	Through soil testing laboratory	Total
87	0	87

3.11.c Detail of Soil, Water and Plant analysis at KVK

Sl.	Analysis	No. of Samples analyzed	No. of Villages	No. of Farmers	Amount realized (Rs.)
1.	Soil	87	12	87	29500
2.	Water	1	1	1	500
3.	Plant				
4.	Fertilizers				
5.	Manures				
6.	Food				
7.	Others (if any)				

3.11.d. 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	World Soil Health day	38	0	-	38	38



## 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 (No.)	Visit by the officials (No.)
2	0	5000	278	9

## 3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology

## 3.14. RAWE/ FET programme - is KVK involved? (Y/N)

No of student trained	No of days stayed
29	24

ARS trainees trained	No of days stayed

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

Date	Name of the person	Purpose of visit
17.09.2020	Sh. Indrajit Mahato, Ho'ble MLA Sindri, Dhanbad	Inauguration of Poshan Abhiyan and Farmers Gosthi



## 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)
System of rice intensification	2356	31		
System of wheat intensification	285	22		
Seed treatment	729	28		
Seed production	287	35		
Commercial flower production	75	9		

Mushroom production	759	21		
Vermi-culture and composting	523	24		
Soil Sampling	401	44		
Safe use of Plant protection measure	277	18		
Vegetable nursery raising	398	23		
Stitching of garments	103	14		
Wearing and knitting	67	8		
Value addition in local fruits & vegetables	311	9		
Fabrication of small agricultural tools	197	8		

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 of Paddy	2451 ha.
Mushroom cultivation	289

Give information in the same format as in case studies

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



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

#### 4.4. Details of innovations recorded by the KVK

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

#### 4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Mushroom Production
Name & complete address of the entrepreneur	Sarita Devi, W/o Late Neeraj Singh Krishna Nagar, Cooperative Colony Near Hanuman Mandir Saraidhela Dhanbad Phone No. 9693706519
Role of KVK with quantitative data support:	First Training from 15-19.02.17 and second training on 28.9.2018-04.10.2018 started own unit just after first training and any problem he consult with scientist
Timeline of the entrepreneurship development	He started producing initially 1kg/day and sell at Rs 180/kg after second training his production of oyster mushroom rose 12kg/day
Technical Components of the Enterprise	The technical expertise and spawn is purchased from KVK Dhanbad. He producing oyster mushroom and milky mushroom
Status of entrepreneur before and after the	Sarita Devi 80 bags of straw at one time, which cost

enterprise	about Rs.5000 and harvest about 200 kg /month raw mushroom and sell at a price of Rs 200/ kg and get Rs 950/day . the net income from mushroom Rs 27,800. He told that, he average earn more than Rs 25000/ month
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. ( Economic viability of the enterprise):	At present he started in 2 rooms (1000sqft) area and involved four labour and stated catering the needs and demand of the local consumers. Since he told that he earn average Rs. 25000/month in mushroom and wanted to earn Rs 25000-30000/month he enlarges the production capacity from two room to six rooms. There is no problem of marketing he faces
Horizontal spread of enterprise	8-10 person after seeing his unit also working towards mushroom production and taken training from the KVK Dhanbad
	

4.6. Any other initiative taken by the KVK

## 5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
DRDA, Dhanbad	Infrastructure & sponsored training programme.
District Agriculture Office, Dhanbad	Participation in training, FLD, Joint survey.
District Animal Husbandry Office, Dhanbad	Joint training programme & participation in meeting.
District Fisheries Office, Dhanbad	Joint training programme & participation in meeting.
District Horticulture Office, Dhanbad	Joint training programme & participation in meeting.
District Plant Protection Office, Dhanbad	Joint diagnostic survey & participation in meeting.
District Forest Office, Dhanbad	Participation in meeting.
Agricultural produce market committee (Bazaar Samiti), Dhanbad.	Joint training programme, participation in meeting & joint Krishak Gosthi.
Lead Bank Manager office, Dhanbad	Financial support from banks to trained persons for entrepreneur development.
Zonal Office, Bank of India Dhanbad	Financial support from banks to trained persons for entrepreneur development.
NABARD, Dhanbad.	Formation of SHG, Kisan Club & Training.
Tata Steel Rural Development Society, Dhanbad.	Joint training programme & participation in meeting.
Alamin Gramin Mahila Sishu Kalyan Kendra, Jharkhand State Office, Kanke, Ranchi	Joint training programme.
Krishi Bikash Shilpa Kendra, Birbhum(W.B)	Joint training programme.

5.2. List of special programmes undertaken during 2020 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.)
Strengthening soil testing laboratory	Establishment/ strengthening soil testing laboratory	08.10.2020	DAO, Dhanbad	6,49,380.00

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

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Training	Skill development	25.11.2020	DVC, panchet dhanbad	29,500.00

## 6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety /breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Progeny Orchard	2007	1 ha	MANGO-Langra, Maldha, Dasheri, Amrapali, GUAVA-Allahabad Safeda Lucknow-49	Seedling	219	-	10950.	
						130		6500.	
				MANGO-Langra, Maldha, Dasheri, Amrapali,	Mango Fruit	146.5 Kg		2930.	
				Guava	Fruit	118 Kg		1185	
				Banana	Fruit	5Kg		100	
				Bamboo		2PC		200	
	Habiscus Plant		2PC		60				
2.	Tissue culture	2012-13	-	Banana – Grand nine, Robusta, Martman	Plant	-			
3.	Bio-fertilizer	-	-	Yet to be started					



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)
Feb.- March 2020	19	30	NIL
Total :			

(For whole of the year)

### 6.6. Utilization of staff quarters

Whether staff quarters has been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

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

## 7. FINANCIAL PERFORMANCE

### 7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
KVK, Dhanbad	SBI Hirapur	Hirapur Dhanbad	10900477204
KVK, Dhanbad	SBI Hirapur	Hirapur Dhanbad	10900477191

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

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

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

Item	Released by ICAR		Expenditure		Unspent balance as on 1 <sup>st</sup> April 2013
	Kharif	Rabi	Kharif	Rabi	

## 7.4. Utilization of KVK funds during the year 2020(Not audited)

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

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

Year	Opening balance as on 1 <sup>st</sup> April	Income during the year	Expenditure during the year	Net balance in hand as on 1 <sup>st</sup> April of each year (Kind + cash)
2015-16	72415	349842	392988	29569+Kind
2016-17	29269	525738	483414	71593 + Kind
2017-18	71593	1785891	1291563	565921 + Kind
2018-19	565921	1394747	624121	1336547 + Kind
2019-20	1336547	450884	969975	817456+ Kind

- 7.6. (i) Number of SHGs formed by KVKs  
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities  
(iii) Details of marketing channels created for the SHGs

## 7.7. Joint activity carried out with line departments and ATMA

Name of activity	Number of activity	Season	With line department	With ATMA	With both
Soil Health Card Preparation	68	Rabi & Kharif Season	DAO, Dhanbad, VLW	PD,BTM ATMA	Both
Village Seed Production	Seed Village in Kharif	Rabi & Kharif Season	DAO, Dhanbad, VLW	DAO, Dhanbad,VLW	Both
International Soil Health Day	1	-	DAO, Dhanbad, VLW	DAO, Dhanba,VLW	Both

Crop Cutting Programme	2	Rabi & Kharif Season	DAO, Dhanbad	-	-
Single Window System	-	-	All Line Department	-	-
Rabi work shop	3	Rabi	DAO	-	-
Kharif work shop	1	Kharif	DAO	-	-

## 8. Other information

### 8.1. Prevalent diseases in Crops

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

### 8.2. Prevalent diseases in Livestock/Fishery

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

### 9.1. Nehru YuvaKendra (NYK) Training

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

### 9.2. PPV & FR Sensitization training Programme

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

### 9.3. *mKisan*Portal (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop		
Livestock		
Fishery		
Weather		
Marketing		
Awareness		
Training information	3	36596
Other		
<b>Total</b>	3	36596

## 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 Kisan Mobile Advisory Services (KMAS)

Sl. No.	Discipline	No. of Advisories	No. of Messages (SMSs)	No. of Farmers
1.	Training	1	1	12560
2.				
3.				
4.				
5.				

## 9.6. a. Observation of Swachha Bharat Programme/Pakhwara

Date/ Duration of Observation	Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
16-31.12.2020	Basic maintenance, Cleaning and beautification of surrounding areas, Vermicomposting/Composting of biodegradable waste management & other activities on generate of wealth for waste, Used water for agriculture/ horticulture application, Swachhta Awareness at local level, Swachhta Workshops, Swachhta Workshops, Involving the farmers, farm women and village youth in the adopted villages (no of adopted village),	7	285	12	104

## b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	12	
2. Basic maintenance	6	
3. Sanitation and SBM	14	
4. Cleaning and beautification of surrounding areas	11	
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	18	
6. Used water for agriculture/ horticulture application	6	



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#### 9.11. Details of Swachhta Hi Sewaprogramme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Toilet pit – digging exercise and other toilet construction activities	3	27		
2	Organize cleaning of streets, drains and back alleys through awareness drives	2	32		
3	Organize waste collection drives in household and common or shared spaces	2	26		
4	Conduct door –to-door meeting to drive behavior change with respect to sanitation behaviors	3	53		
5	Organize awareness campaigns around better sanitation practices like using a toilet, hand washing, health and hygiene awareness etc.	3	42		
6	Perform Swachhata related Nukkad Nataks/ street plays, folk song and dance performances	1	21		
7	Conduct Village or School – level rallies to generate awareness about sanitation	1	16		
8	Make wall Paintings in public places on the theme of Swachhata	1	16		
9	Volunteer for segregation of solid waste into non-biodegradable and biodegradable waste	1	8		
10	Mobilize community to build compost pits, Where organic matter decomposes to form manure	1	29		



### 9.12. 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	Group discussion, debate, completion, prize distribution	8	45	-	-



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

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

### 9.14. Revenue generation

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	Institutional and lodging charges	71250	RAWE Pro. Of Jharkhand Rai University Ranchi

Sl.No.	Name of Head	Income (Rs.)	Sponsoring agency
2.	Institutional and lodging charges	28125	DHO, Dhanbad

## 9.15. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created
1	Establishment /Strengthening Soil Testing lab	Strengthening Soil Testing lab	DAO, Dhanbad	6,49,380.00	Minilab, Refill chemical, Distilled water Machine, Oven and drier, Almirah for soil chemical store, Electricity Installation

## 9.16. Performance of Automatic Weather Station in KVK

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

## 9.17. 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	KVK, Dhanbad	Crop Production	8	154	<p>Paddy cultivation through SRI method or plastic drum seeder.</p> <p>2. Bunding for water retention.</p> <p>3. Use of cono weeder for weeding.</p> <p>4. Ridge Furrow method should be followed for proper germination</p> <p>5. Conservation of soil moisture.</p> <p>6 Mechanical weeding</p> <p>7. Staking for Dolichos Bean</p>

## 10. Report on Cereal Systems Initiative for South Asia (CSISA)

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

Experiment	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 2020

Sl.	Activities	Physical Achievement	
		No. of Trainings/Demos	No. of beneficiaries
1)	Trainings		
a.	Farmer		
b.	Women		
c.	Rural Youths		
d.	Extension Personnel		
2)	OFT	No. of OFTs	No. of beneficiaries
3)	FLD	No. of FLDs	No. of beneficiaries
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
5)	Other activities		
a.	Participants in extension activities (No.)		
b.	Production of seed (q)		
c.	Production of Planting material (No. in lakh)		
d.	Production of Livestock strains (No. in lakh)		
e.	Production of fingerlings (No. in lakh)		
f.	Testing of Soil, water, plant, manures samples (Nos.)		
g.	Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)		
h.	No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)		

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

## c. Achievements of physical out come under TSP during 2017-18

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

## d. Location and Beneficiary Details during 2017-18

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



				M	F	M	F	M	F	M	F	T	

#### Institutional interventions

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

#### Capacity building

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

#### Extension activities

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

Detailed report should be provided in the circulated Performa

#### 14.a) Awards/Recognition received by the KVK in year 2020

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

#### b) Award received by Farmers in year 2020

Sl.	Name of the Award	Name of the Farmer	Address	Contact No.	Aadhar No.	Amount	Purpose	Conferring Authority

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

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

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

17. Integrated Farming System (IFS)


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



B) Activities under IFS

Sl. No.	Component Name	No. of Components established	Area (ha)	No. of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
1.							
2.							
3.							

18. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Cultivation of Strawberry	Using of hybrid variety, drip irrigation with poly mulch, Proper Line sowing Balance use of fertilizer & FYM and timely fertigation	1,75,000=00	5	

<p>2</p>	<p>Cultivation of broccoli</p>	<p>Sowing time, proper distancing, balance use of nutrients based in soil test</p>	<p>85000=00</p>	<p>16</p>	
<p>3.</p>	<p>Cultivation mushroom</p>	<p>Proper training, follow up, grading, packing and marketing</p>	<p>75000=00</p>	<p>49</p>	
<p>4.</p>	<p>Tomato cultivattion</p>	<p>Production of hybris variety with using drip irrigation and poly mulch</p>	<p>125000.00</p>	<p>45</p>	

5	Cultivation of brinjal	Using hybrid variety ) drip irrigation Line sowing Balance use of fertilizer & FYM	1,20,000.00	38	
6.	Marigold cultivation	High yielding variety like Pusa narangi and Pusa Basanti with using drip irrigation	1,35,000.00	12	

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

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)					
II (up-to 24.04.2018)	159	2050			
Total	159	2050			

#### 20. Information on Visit of Ministers to KVKs, if any

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

#### 21. a) Information on ASCI Skill Development Training Programme, if undertaken during 2017-18, 2019 and 2020

Year	Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants	Whether uploaded to SDMS Portal (Y/N)	Fund utilized for the training (Rs.)
2016-17							
2017-18							
2019							
2020							

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b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs.**, if any) if undertaken during 2020

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

## 22. Information of NARI Project(if applicable)

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

### Progress Information of NARI Project

#### a. Details of established Nutrition Garden in Nutri-Smart village

Sl.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.		Backyard/Kitchen garden			
2.		Community level			
3.		Terrace Garden			
4.		Vertical Garden			
TOTAL					

#### b. Details of Bio-fortified crops in Nutri-Smart village

Name of Nutri-Smart Village	Season	Activity (OFT/FLD)	Category of crop (cereal/ pulses/oilseed/ fruits & veg./ others)	Name of Crop	Variety	Area (ha)	No. of beneficiaries

#### c. Value addition in Nutri-Smart village

Name of Nutri Smart Village	Name of Crop/veg./fruits/other	Name of Value added product	Activity (OFT/FLD)	No. of farmers/ beneficiaries

#### d. Training programmes in Nutri-Smart village

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries

#### e. Extension activities under NARI Project

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries

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## 23. Activities under KSHAMTA

Number of Adopted Villages	No. of Activities		No. of farmers benefited	
	Demo	Training	Demo	Training

## 24. Activities under MGMG:

Total No of Groups/team formed	No. of Scientists Involved	No. of villages covered	No. of field activities conducted	No. of messages/ advisory sent	Farmers benefited (No.)

## 25. Activity information of Farmer FIRST Programme (FFP)

Sl.	Modules	Activity Information		
		Demo (No.)	No. of Farm Families	
1.	NRM Module			
2.	Crop Module			
3.	Horticulture Module			
4.	IFS Model			
		Demo (No.)	No. of Farm Families	No. of Animals
5.	Livestock & Poultry			
		No. of Program	No. of farmers	
6.	Extension Activities			

## 26. Information on Krishi Kalyan Abhiyan Phase- I/ Phase-II/ Phase-III, if applicable

*Krishi Kalyan Abhiyan- I/II***A. Training**

Name of programme	No. of programmes	No. of farmers benefitted									No. of officials attended the programme	
		SC		ST		Others		Total				
		M	F	M	F	M	F	M	F	T		
<b>KKA-I</b>												
<b>KKA-II</b>												

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

Name of programme	No. of Programme	Total quantity distributed				No. of farmers benefited								No. of other officials (except KVK) attended the programme	
		Seed (q)	Planting material (lakh)	Input (kg)	Other (kg/ No.)	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F		T
KKA-I															
KKA-II															

**C. Livestock and Fishery related activities**

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

#### D. Other activities

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

#### Krishi Kalyan Abhiyan- III

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

#### 27. Any other programme organized by KVK, not covered above

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

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





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