



# **KRISHI VIGYAN KENDRA BOKARO**



# **ACTION PLAN**

**(2018-19)**

**Zonal Workshop of KVKs**

**Dated: 26-27 May, 2018**

**Venue: OUAT, Bhubaneswar**

**BIRSA AGRICULTURAL UNIVERSITY**

**KANKE, RANCHI**

**Krishi Vigyan Kendra, Bokaro , AT+ P.O.- Petarwar, Dist- Bokaro,**

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# Action Plan 2018-19

1. Name of the KVK : **Krishi Vigyan Kendra Bokaro**
2. Name of host organization : **Birsa Agricultural University, Ranchi**
3. Training programme to be organized : **(April 2018 to March 2019)**

## Farmers and farmwomen – On Campus

Thematic Area*	Title	No. of course	Duration	No. of participants											
				SC			ST			OTH			Total		G. Total
				M	F	T	M	F	T	M	F	T	M	F	
<b>Crop production</b>															
Seed production technology	Seed production of paddy	1	2	-	-	-	5	5	10	5	10	15	10	15	25
	Seed production of pulses	2	1	-	-	-	5	-	5	15	5	20	20	5	25
Weed management	Weed management in pulses	1	2	-	-	-	-	10	10	10	5	15	10	15	25
Integrated crop management	Production technology of sweet corn baby corn & maize	1	2	-	-	-	5	-	5	10	10	20	15	10	25
	SRI technology of paddy	1	2	-	-	-	10	-	10	15	-	15	25	-	25
	Cultivation practice of wheat	1	1	-	-	-	5	-	5	10	10	20	15	10	25
	Cultivation practice of rabi oilseed- and pulses	1	2	-	-	-	10	-	10	15	-	15	25	-	25
	Cultivation practice of kharif oilseed- and pulses	1	2	-	-	-	10	-	10	15	-	15	25	-	25
<b>Total</b>		<b>9</b>	<b>14</b>				<b>50</b>		<b>65</b>	<b>95</b>	<b>40</b>	<b>135</b>	<b>145</b>	<b>55</b>	<b>200</b>
<b>Soil health &amp; fertility management</b>															
Soil fertility management	Method of Soil sample collection & soil testing	1	1	-	-	-	5	5	10	5	10	15	10	15	25
Integrated nutrient management	Integrated nutrient management in major cereal crops	1	1	-	-	-	5	5	10	5	10	15	10	15	25
	Sulphur management in mustard	1	2	-	-	-	15	10	25	-	-	-	15	10	25
Production and use of organic	Production of vermi compost	1	2	-	5	5	-	10	10	-	10	10	-	25	25

inputs																
<b>Total</b>		<b>4</b>	<b>6</b>			<b>5</b>	<b>5</b>	<b>25</b>	<b>30</b>	<b>55</b>	<b>10</b>	<b>30</b>	<b>40</b>	<b>35</b>	<b>65</b>	<b>100</b>
<b>Horticulture</b>																
Fruits	Layout and Management of Orchards	1	2	-	-	-		<b>15</b>	10	25	-	-	-	15	10	25
	Management of young plants/orchards	1	2	-	-	-		<b>15</b>	10	25	-	-	-	15	10	25
Production and management technology	Cultivation practice of ginger	1	2	-	-	-		5	10	15	5	5	10	10	15	25
Nursery management	Production technology of off season vegetables	1	2	-	-	-		5	10	15	5	5	10	10	15	25
Integrated crop management	Intercropping system in vegetable crops	1	2	-	-	-		5	10	15	5	5	10	10	15	25
	Cultivation practice of potato & onion	1	2	-	-	-		5	10	15	5	5	10	10	15	25
	Cultivation practice of leguminous vegetables & bulbs crops	1	2	-	-	-		5	10	15	5	5	10	10	15	25
	Cultivation practice & management of cole crops & cucurbits	1	2	-	-	-		5	10	15	5	5	10	10	15	25
<b>Total</b>		<b>8</b>	<b>16</b>					<b>60</b>	<b>80</b>	<b>140</b>	<b>30</b>	<b>30</b>	<b>60</b>	<b>90</b>	<b>110</b>	<b>200</b>
<b>Plant Protection</b>																
Seed treatment	Seed treatment of cereals, pulses & vegetable & oilseed	1	2	-	-	-		10	-	10	15	-	15	25	-	25
Integrated Disease Management	Integrated Disease Management in cereals and vegetables	2	2	-	-	-		20	20	40	10	-	10	30	20	50
Bee keeping	Production of honey	2	2	5	-	5		5	5	10	5	5	10	15	10	25
Integrated Pest Management	IPM in vegetables	1	2	-	-	-		10	-	10	15	-	15	25	-	25
	Control of sucking pest in oilseed crops	1	2	-	-	-		10	-	10	15	-	15	25	-	25

Production of bio control agents and bio pesticides	Production technology and use of bio-control agents and bio-pesticides	1	2	-	-	-	-	-	-	20	5	25	20	5	25
Lac cultivation	Production technology of kusmi lac	1	2	-	-	-	10	-	10	15	-	15	25	-	25
<b>Total</b>		<b>9</b>	<b>14</b>				<b>65</b>	<b>25</b>	<b>90</b>	<b>95</b>	<b>10</b>	<b>105</b>	<b>165</b>	<b>35</b>	<b>200</b>
<b>Agril. Engg.</b>															
Use of plastic in agriculture	Mulching in vegetable	1	2	-	-	-	<b>15</b>	10	25	-	-	-	15	10	25
Installation & maintenance of micro irrigation system	Drip irrigation in vegetable	2	4	-	-	-	10	-	10	40	-	40	50	-	50
Repair and maintenance of farm machinery	Use of farm machinery in crop production	2	5	-	-	-	10	-	10	40	-	40	50	-	50
Soil & water conservation	Rain water harvesting techniques	1	2	10	-	10	15	-	15	-	-	-	25	-	25
	Efficient water management in cereals crops	1	3	-	-	-	-	-	-	25	-	25	25	-	25
<b>Total</b>		<b>7</b>	<b>16</b>	<b>10</b>		<b>10</b>	<b>50</b>	<b>10</b>	<b>60</b>	<b>105</b>		<b>105</b>	<b>165</b>	<b>10</b>	<b>175</b>
<b>Home Science/ women empowerment</b>															
PHT	PHT of local vegetables	1	2	-	5	5	-	10	10	-	10	10	-	25	25
Nutrition security															
	Use of uncultivated and forest produce in regular diet	1	3	-	5	5	-	10	10	-	10	10	-	25	25
Capacity building	Income generation through various type of badi & papad	1	2	-	10	10	-	20	20	-	20	20	-	50	50
	Income generation through various type of pickles	1	2	-	10	10	-	20	20	-	20	20	-	50	50

Food preservation	Development of low cost nutritious preserved horticultural food products	1	3													
				-	5	5	-	10	10	-	10	10	-	25	25	
<b>Total</b>		<b>5</b>	<b>12</b>		<b>35</b>	<b>35</b>		<b>70</b>	<b>70</b>		<b>70</b>	<b>70</b>		<b>175</b>	<b>175</b>	
<b>Live stock</b>																
Goatry Management	Goatry management	2	2	5	-	5	5	5	10	5	5	10	15	10	25	
Poultry Management	Disease and feed management in poultry	2	2	5	-	5	5	5	10	5	5	10	15	10	25	
Piggery	Disease management in pigs	2	2	20	-	20	5	-	5	-	-	-	20	5	25	
<b>Fisheries</b>																
Fish farming	Composite fish farming	1	3	-	-	-	-	-	-	25	-	25	25	-	25	
<b>Total</b>		<b>7</b>	<b>9</b>	<b>30</b>		<b>30</b>	<b>15</b>	<b>10</b>	<b>25</b>	<b>35</b>	<b>10</b>	<b>45</b>	<b>75</b>	<b>25</b>	<b>100</b>	
<b>Grand total</b>		<b>49</b>	<b>87</b>	<b>40</b>	<b>40</b>	<b>80</b>	<b>265</b>	<b>225</b>	<b>505</b>	<b>370</b>	<b>190</b>	<b>560</b>	<b>675</b>	<b>475</b>	<b>1150</b>	

### Farmers and farmwomen – Off Campus

Thematic Area*	Title	No. of course	Duration	No. of participants												
				SC			ST			OTH			Total		G. Total	
				M	F	T	M	F	T	M	F	T	M	F		
<b>Crop production</b>																
Integrated crop management	Production technology of hybrid rice	1	1	5	-	5	5	-	5	20	-	20	30	-	30	
	Production Technology of wheat	1	1	-	-	-	20	10	30	-	-	-	20	10	30	
	Cultivation practice of maize	1	1	-	-	-	-	-	-	20	10	30	20	10	30	
	Cultivation practice of finger millet & little millet	1	1	-	-	-	-	-	-	20	10	30	20	10	30	
	Production Technology SRI	1	1	-	-	-	-	10	10	-	20	20	-	30	30	
	Cultivation practice of oilseed & pulses	1	1	-	-	-	-	10	10	-	20	20	-	30	30	
	Cultivation practice of	1	1	-	-	-	20	10	30	-	-	-	20	10	30	

	fodder crop															
Cropping system	Cropping system of cereals	1	1	-	-	-	20	10	30	-	-	-	20	10	30	
Weed management	Weed management in pulse crop	1	1	-	-	-	5	5	10	15	5	20	20	10	30	
<b>Total</b>		<b>9</b>	<b>9</b>	<b>5</b>		<b>5</b>	<b>70</b>	<b>55</b>	<b>125</b>	<b>75</b>	<b>65</b>	<b>140</b>	<b>150</b>	<b>120</b>	<b>270</b>	
<b>Soil health &amp; fertility management</b>																
Soil & water testing	Method of soil sampling	5	1	-	-	-	25	25	50	75	25	100	100	50	150	
Bio control	Use of bio fertilizer in pulses	1	1	-	-	-	10	5	15	10	5	15	20	10	30	
	Benefit and use of rizobium culture in pulse crops	1	1	-	-	-	-	10	10	-	20	20	-	30	30	
Integrated nutrient management	INM in cereal crops	1	1	10	-	10	-	-	-	20	-	20	30	-	30	
	Sulphur and phosphate management in mustard crops	1	1	10	-	10	-	-	-	20	-	20	30	-	30	
<b>Total</b>		<b>9</b>	<b>5</b>	<b>20</b>		<b>20</b>	<b>35</b>	<b>40</b>	<b>75</b>	<b>125</b>	<b>50</b>	<b>175</b>	<b>180</b>	<b>90</b>	<b>270</b>	
<b>Horticulture</b>																
Integrated crop management	Cultivation practice of cole crops	1	1	-	-	-	10	-	10	20	-	20	30	-	30	
	Cultivation practice of cucurbits	1	1	-	-	-	10	-	10	20	-	20	30	-	30	
	Cultivation practices of bulbous and cucurbits	1	1	-	-	-	10	-	10	20	-	20	30	-	30	
	Cultivation practice of leguminous vegetable	2	1	5	-	5	15	5	20	25	10	35	45	20	60	
Production & management (Spices)	Cultivation practice of spices crops	1	1	-	-	-	10	-	10	20	-	20	30	-	30	
Nursery management	Nursery management of vegetable crops	1	1	-	-	-	10	-	10	20	-	20	30	-	30	
Fruits	Orchard management	1	1	-	-	-	10	-	10	20	-	20	30	-	30	

Tuber crops	Production & management of tuber crops	1	1	-	-	-	10	-	10	20	-	20	30	-	30
<b>Total</b>		<b>9</b>	<b>8</b>	<b>5</b>		<b>5</b>	<b>85</b>	<b>5</b>	<b>90</b>	<b>165</b>	<b>10</b>	<b>175</b>	<b>255</b>	<b>20</b>	<b>270</b>
<b>Plant Protection</b>															
Integrated pest management	Integrated pest management of vegetables	1	1	-	-	-	-	10	10	-	20	20	-	30	30
	Integrated pest management of cereals	1	1	-	-	-	5	5	10	20	-	20	20	10	30
	Integrated pest management of pulses	1	1	-	-	-	5	5	10	20	-	20	20	10	30
	Integrated pest management of oilseed	1	1	-	-	-	5	5	10	20	-	20	20	10	30
IDM	Integrated disease management of vegetables	1	1	-	-	-	5	5	10	15	5	20	20	10	30
	Integrated disease management of cereals	1	1	-	-	-	10	-	10	20	-	20	30	-	30
Seed treatment	Seed treatment of oilseed, cereals, pulses & vegetable crops	2	1	-	-	-	10	-	10	20	-	20	30	-	60
<b>Total</b>		<b>8</b>	<b>7</b>				<b>40</b>	<b>30</b>	<b>70</b>	<b>115</b>	<b>25</b>	<b>140</b>	<b>140</b>	<b>70</b>	<b>240</b>
<b>Agril. Engg.</b>															
Soil & water conservation	water conservation through 10% model	1	1	-	-	-	10	-	10	20	-	20	30	-	30
	Vegetable cultivation through mulching	1	1	-	-	-	10	-	10	20	-	20	30	-	30
Repair & maintenance of farm machinery and implements	Farm mechanization in paddy & wheat cultivation	1	1	-	-	-	-	-	-	30	-	30	30	-	30
PHT	Processing and storage technique of seeds	1	1	-	-	-	-	10	10	-	20	20	-	30	30
	Cereals and	1	1	-	-	-	-	10	10	-	20	20	-	30	30

	vegetable processing and storage														
Installation and maintenance of micro irrigation system	Vegetable cultivation through Drip irrigation in	2	2	-	-	-	10	10	20	20	20	40	30	30	60
	Care and maintenance of Drip irrigation system	1	1	-	-	-	-	10	10	-	20	20	-	30	30
<b>Total</b>		<b>8</b>	<b>8</b>				<b>30</b>	<b>40</b>	<b>70</b>	<b>90</b>	<b>80</b>	<b>170</b>	<b>120</b>	<b>120</b>	<b>240</b>
<b>Home Science/ women empowerment</b>															
Minimization of nutrient loss in processing	New methods of parboiling rice	1	2	-	5	5	-	10	10	-	15	15	-	30	30
	scientific Methods drying of GLV & other vegetables	1	2	-	5	5	-	10	10	-	15	15	-	30	30
Capacity building	Drudgery reduction through simple cost effective agricultural implements	1	2	-	5	5	-	10	10	-	15	15	-	30	30
	Preparation of pickle from of un cultivated and forest produce .	1	2	-	5	5	-	10	10	-	15	15	-	30	30
	Fish based integrated farming system	2	2	-	5	5	-	10	10	-	15	15	-	30	60
PHT	Post harvest local seasonal fruits and vegetables	1	2	-	-	-	-	10	10	-	10	10	-	20	20
Vermi compost	production of vermi compost	1	2	-	5	5	-	10	10	-	15	15	-	30	30
<b>Total</b>		<b>8</b>	<b>14</b>		<b>30</b>	<b>30</b>		<b>70</b>	<b>70</b>		<b>100</b>	<b>100</b>		<b>200</b>	<b>230</b>
<b>Grand total</b>		<b>51</b>	<b>51</b>	<b>30</b>	<b>30</b>	<b>60</b>	<b>260</b>	<b>240</b>	<b>500</b>	<b>570</b>	<b>330</b>	<b>900</b>	<b>845</b>	<b>620</b>	<b>1520</b>

**(b)Rural youths/Skill development**

Thematic Area*	Title	No. of course	Dura tion	No. of participants											
				SC			ST			OTH			Total		G. Total
				M	F	T	M	F	T	M	F	T	M	F	
Seed production	Seed production technology of paddy & pulses	3	5	-	-	-	-	-	-	75	-	75	75	-	75
Integrated farming	Integrated farming system	1	7	-	-	-	-	25	25	-	-	-	-	25	25
Commercial fruit production	Mango plantation	1	7	-	-	-	25	25	50	-	-	-	25	25	50
Organic inputs	Formation of vermi compost & organic compost	1	7	-	-	-	-	25	25	-	-	-	-	25	25
Mushroom Production	Production technology of Mushroom	1	7	-	-	-	-	25	25	-	-	-	-	25	25
Entrepreneur ship development	Entrepreneur ship development through drafting & stitching of female garments	1	7	-	-	-	-	25	25	-	-	-	-	25	25
	Processing of local seasonal fruits & vegetable	1	7	-	-	-	-	25	25	-	-	-	-	25	25
Lac culture	Utilization of indigenous host plant for lac cultivation	1	7	-	-	-	10	-	10	15	-	15	25	-	25
Bee keeping	Cultivation of bee keeping	1	7	-	-	-	10	-	10	15	-	15	25	-	25
Water conservation	Care & maintenance of micro irrigation system	1	5	-	-	-	10	-	10	15	-	15	25	-	25
<b>Total</b>		<b>12</b>	<b>66</b>				<b>55</b>	<b>150</b>	<b>205</b>	<b>120</b>		<b>120</b>	<b>175</b>	<b>150</b>	<b>325</b>

**(c) Extension functionaries**

Thematic Area*	Title	No. of course	Duration	No. of participants											
				SC			ST			OTH			Total		G. Total
				M	F	T	M	F	T	M	F	T	M	F	
Productivity enhancement in field crop	Advances in production technology of oilseed & pulses	1	2	3	-	3	7	-	7	15	5	20	25	5	30
Contingent plan	Contingent crop planning	1	1	-	-	-	10	5	15	10	5	15	20	10	30
Market led extension	Market led extension for vegetable producer group	1	1	-	-	-	10	-	10	20	-	20	30	-	30
Climate resilient agriculture	Climate resilient agriculture	1	2	-	-	-	-	-	-	30	-	30	30	-	30
Water conservation	Use & maintenance of micro irrigation system	1	2	-	-	-	-	-	-	30	-	30	30	-	30
Resource conservation	Petroleum conservation technique in agriculture	1	1	-	-	-	10	-	10	20	-	20	30	-	30
Organic inputs	Use of bio fertilizer	1	1	-	-	-	10	-	10	20	-	20	30	-	30
Lac culture	Processing of lac	1	1	-	-	-	10	-	10	20	-	20	30	-	30
Women & Child care	Natural food fortification	1	1	-	-	-	-	15	15	-	-	15	15	30	30
	Preventive measures to combat mal nutrition, anaemia & diarrhoea	1	1	-	-	-	-	15	15	-	-	15	15	30	30
Women empowerment	Technological empowerment of rural women	1	1	-	-	-	-	15	15	-	-	15	15	30	30
	Economic empowerment through small scale business	1	1	-	-	-	-	15	15	-	-	15	15	30	30
<b>Total</b>		<b>12</b>	<b>15</b>	<b>3</b>		<b>3</b>	<b>57</b>	<b>65</b>	<b>122</b>	<b>165</b>	<b>10</b>	<b>235</b>	<b>285</b>	<b>135</b>	<b>360</b>

### Abstract of Training for 2018-19

Clientele	On campus		Off campus		Total	
	No. of course	Participants	No. of course	Participants	No. of course	Participants
<b>Practicing farmers</b>	49	1150	51	1520	114	2670
<b>Rural Youths</b>	12	325	-	-	12	325
<b>Extension functionaries</b>	12	360	-	-	12	360
<b>Total</b>	<b>73</b>	<b>1835</b>	<b>51</b>	<b>1520</b>	<b>138</b>	<b>3355</b>

#### 4. Frontline demonstration

Season	Crop	Variety	No. of area (ha)	No. of demo.
Kharif	<b>Cereals</b>			
	Paddy	Sahbhagi Dhan/ Short duration drought tolerant	10	25
	Paddy	Arize Tez	5	20
	Maize (Sweet corn)	Sugar-75	2	10
Rabi				
	<b>Vegetable</b>			
	Broccoli	Ashwarya	2	15
Summer	Cucurbits	Bitter gourd (Sharda) Bottle gourd (Anokhi)	1	10
	<b>Total</b>		<b>20</b>	<b>80</b>

#### Other Technologies

Season	Other technology	Variety	No. of area (ha)	No. of demo.
Kharif				
	Paddy harvesting by self propeller reaper		5	15
	Lac culture		25 unit	25
	Poultry	Jharsim	50 Unit	50
	Processing of milk			10
	Processing of fish			10
	IPM kit in vegetable production /traps		50 unit	50
Rabi	Zero tillage machine		4	10
	<b>Total</b>		<b>ha &amp; unit</b>	

## 5. Cluster Frontline Demonstration

Season	Crop	Variety	No. of area (ha)	No. of demo.
Kharif	<b>Oilseed</b>			
	Groundnut	TG-38	40	100
	Sesame	RT-351	20	50
	Niger	JNC-6	20	50
	<b>Pulse</b>			
	Pigeon pea	NDA-2/IPA-203	40	100
	Green gram	Pant Moong-5	30	75
	Horse gram	Birsa Kulthi-1	20	50
	Black gram	Pant-31/Sulata-1	30	75
Rabi	<b>Oilseed</b>			
	Mustard	P-26/P-30	40	100
	Linseed	Azad Alsi-1	20	50
	<b>Pulse</b>			
	Chick pea	Jaki-9218	20	50
	Field pea	Prakash	20	50
Summer	<b>Pulse</b>			
	Green gram	IPM-203/ HUM-16	30	75
	<b>Total</b>		<b>330</b>	<b>825</b>

## 6. Seed and planting material production

Crop	Variety	Area(ha)	Category of seed
Paddy	Rajendra Mansuri	1.0	F/S
	Lalat	2.0	F/S
	Shahabhangi Dhan	2.0	F/S
<b>Pulse</b>			
Pigeon pea	IPA- 203	0.5	F/S
<b>Total Area</b>		<b>5.5 ha</b>	
<b>Planting material</b>			

Mango	Amrapali	200 Nos.	
Guava	L-49	200 Nos.	
Papaya		2000 Nos.	
Vegetable seedling		5000 Nos.	
<b>Total</b>		<b>7400</b>	

## 6. Extension Activities

Activities	No.	Participants
Field Day	10	400
Kisan Mela	2	2000
Kisan Ghosthi	5	200
Exhibition	5	500
Film Show	25	625
Method Demonstrations	5	50
Farmers Seminar	1	50
Workshop	1	50
Group meetings	1	50
Lectures delivered as resource persons	50	
Newspaper coverage	10	
Radio talks	2	
TV talks	12	
Popular articles	4	
Extension Literature	10	
Advisory Services	60	500
Scientific visit to farmers field	120	1000
Farmers visit to KVK	1200	1200
Diagnostic visits	24	400
Exposure visits	2	60
Ex-trainees Sammelan	1	100
Soil health Camp	2	200
Animal Health Camp	1	50
Agri mobile clinic	0	0
Soil test campaigns (Analysis)	5	1000
Farm Science Club Conveners meet	1	25
Self Help Group Conveners meetings	2	50
Mahila Mandals Conveners meetings	2	50
Celebration of important days (specify)	2	100
Help line service	2000	2000
Any Other (Technology Week)	1	500
<b>Total</b>	<b>3566</b>	<b>11160</b>

## 7. Revolving Fund

Open balance	Amount to be invested	Return

## 8. Expected fund utilization

Project	Source	Amount to be received (Rs. in lakh)

## 9. On-farm trials to be conducted

Thematic area	Title	Treatments	No. of farmers
Integrated nutrient management	1. . Evaluation of onion variety.	<b>Farmers Practice</b> – Nasik-53 (East-West)	<b>10</b>
		<b>Technological option i</b> - Prema (Rasi)	
		<b>Technological option ii</b> - TopaZ(Mahalaxmi)	
Inter cropping	2. Mango based intercropping in newly established orchard in kharif season.	Farmers Practice – Mango sole	<b>05</b>
		Technological option i - Mango + Horse gram	
		Technological option ii - Mango+ Black gram	
		Technological option iii - Mango+ Sponge gourd	
		Technological option iv - Mango+ bitter gourd	
Inter cropping	3. Mango based intercropping in newly established orchard in summer.	Technological option i - Mango+ Bottle gourd	<b>05</b>
		Technological option ii - Mango+ Coriander	
		Technological option iii – Mango + Cow pea	
		Technological option iv – Mango + Cucumber	
Crop Production and farm machinery	4. Effect of different dose of phosphorus on yield of zero tilled wheat.	Farmers practice - Fertilizer application through broadcasting method (RDF of NPK , 80:60:20)	<b>7</b>
		Technological option i- RDF of (NPK, 80:60:20) Phosphorus applied as DAP through zero tillage machine) + N & K applied by broadcasting.	
		Technological option ii - NPK (80:50:20) Phosphorus applied as DAP through zero tillage machine) + N & K applied by broadcasting.	
		Technological option iii - NPK (80:40:20) Phosphorus applied as DAP through zero tillage machine) + N & K applied by broadcasting.	
Water conservation	5. Effect of mulching on water use efficiency and yield of drip irrigated bitter gourd in summer	<b>Farmers practice</b> - Without mulching	<b>7</b>
		<b>Technological option i</b> – Mulch with black colour polythene.	
		<b>Technological option ii</b> - Mulch with silver colour polythene.	

Nutrient Security	6. Assessment of parboiling methods of paddy grains.	<b>Farmer's practice</b> - By soaking in normal water (1-2 days) & open steaming of paddy grains	<b>8</b>
		<b>Technological option i</b> - By soaking in warm water at 90°C (1 hours), Tempering for 2 hours & open steaming of paddy grains	
		<b>Technological option ii</b> - By soaking in warm water 90°C (1 hours), Tempering for 4 hours & vapour steaming of paddy grains	
Inter cropping	7. Productivity of maize (Zea mays) based intercropping system during kharif season.	<b>Farmers practice</b> - Maize (Sole)	<b>10</b>
		<b>Technological option i</b> - Maize + Moong bean (1:2)	
		<b>Technological option ii</b> - Maize + Lady finger (1:1)	
		<b>Technological option iii</b> - Maize + cow pea (1:2)	
Fertilizer management	8. Effect of fertilizer management on productivity of onion.	<b>Farmers practice</b> - 40 kg N+ 20 kg P <sub>2</sub> O <sub>5</sub> + 10-15q FYM.	<b>10</b>
		<b>Technological option i</b> - Farmers practice + 50% recommended dose of K (30 kg K <sub>2</sub> O/ha)	
		<b>Technological option ii</b> - 50 % RDF (50:30:30 kg/ NPK/ha)	
		<b>Technological option iii</b> - 100% RDF (100:60:60 kg NPK/ha)	
Integrated Disease Management	9. Management of late blight of potato in rabi season.	<b>Farmers practice</b> - Dithane M-45 2 g/lit. water as disease incidence.	<b>10</b>
		<b>Technological option i</b> -3 Spray of Indofil M- 45 @ 2g/lit. water at 10 days interval right from 30 <sup>th</sup> day of planting.	
		<b>Technological option ii</b> -2 spray of Ridomil MZ 78 @ 2 g /lit. Water at 15 days interval from 30 <sup>th</sup> day of planting.	
		<b>Technological option iii</b> - 2 spray of Metalaxyl + Mancozeb 72% wp @ 2g/lit. water at 15 days interval from 30 <sup>th</sup> day of planting.	
Integrated Pest Management	10. Control of pod borer in pigeon pea in kharif season.	<b>Farmers practice</b> - Use of Endosulfan as per appearance 1 ml/lit.	<b>10</b>
		<b>Technological option i</b> - 2 spray of Indoxacarb 15.8% EC @ 1ml/lit. water. (1 <sup>st</sup> spray at 50% flowering and 2 <sup>nd</sup> spray at 50 % pod filling stage. )	
		<b>Technological option ii</b> - 2 spray of Indoxacarb 15.8% EC @ 1ml/lit. water + Bt Var. Kurstak 2g/lit. water. (1st spray at 50% flowering and 2 <sup>nd</sup> spray at 50 % pod filling stage. )	
		<b>Technological option iii</b> - 2 spray of Indoxacarb 15.8% EC @ 1ml/lit. water + NSKE 5%. (1st spray at 50% flowering and 2 <sup>nd</sup> spray at 50 % pod filling stage. )	

Nutrition security	11. Processing of shelled peas.	<b>Farmers practice</b> - Direct sale of peas after keeping for home consumption.	<b>10</b>
		<b>Technological option i</b> - Steam blanching of shelled peas for 3-4 minutes after keeping in 0.5% KMS solution for 10 minutes then sun drying.	
		<b>Technological option ii</b> - Blanching of shelled peas in boiling water for 2-3 minutes containing 0.5% KMS solution and 0.1% sodium bicarbonate and 0.1% magnesium oxide sun drying.	

### 10. List of Projects to be implemented

Name of the project	Fund expected (Rs. In lakh)
Assessment & refinement of technology, ATMA, Bokaro	2.0
Capacity building , ATMA, Bokaro	5.0
<b>Total</b>	<b>7.0</b>

11. No. of success stories to be developed - 2 nos

### 12. Scientific Advisory Committee

Date of SAC meeting held during 2016-17	Proposed date
4 <sup>th</sup> February 2017.	

### 13. Soil and water testing

	No. of samples to be analyzed
<b>Soil</b>	2000
<b>Plant</b>	-
<b>Manure</b>	-

## 14. Staff position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale with present basic	Date of joining	Permanent /Temporary
1	Programme Coordinator	-	-	-	-	-	-
2	Scientist	Sri Uday Kumar	Sr. Scientist & Head	Agronomy	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 29950.00	19-07-04	Permanent
3	Scientist	Dr. Anil Kumar	Scientist	Horticulture	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 32510.00	19-07-04	Permanent
4	Scientist	Sri Vinay Kumar	Scientist	Agril. Engg.	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 29950.00	20-07-04	Permanent
5	Scientist	Mrs Neena Bharti	Scientist	Plant Protection	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 29950.00	20-07-04	Permanent
6	Scientist	Mrs. Nandana Kumari	Scientist	Home Science	PB(15600 - 39100) GP- Rs.6000.00 Basic- Rs. 29950.00	19-07-04	Permanent
7	Programme Assistant	Dr. Rupa Rani	Programme Assistant	Horticulture	PB (9300-34800) GP-Rs. 4200.00 Basic- Rs. 20480.00	16-03-05	Permanent
8	Assistant	Sri T.N. Tiwari	Assistant		PB (9300-34800) GP-Rs. 4800.00 Basic- Rs. 26010.00		Permanent
	Computer Programmer	Naman Kandulna	Computer Assistant		PB (9300-34800) GP-Rs. 4200.00 Basic- Rs. 19120.00	20-07-04	Permanent
9	Farm Manager	-	-	-	-	-	-
10	Accountant / Superintendent	Sri Abhay Kumar Singh	O.S.cum Accountant	-	9300.00		Contractual Staff
11	Stenographer	Sri Ratnesh Kumar Mishra	Stenographer	-	5200.00		Contractual Staff
12	Driver	Sri Ranchandra Lohar	Driver	-	5200.00		Contractual Staff
13.	Driver	Sri Panchanand Mahto	Driver	-	5200.00		Contractual Staff
14.	Supporting staff	Sri Ruplal Marandi	Supporting Staff	-	4440.00		Contractual Staff
15.	Supporting staff	Sri Durga Prasad Mahto	Supporting Staff	-	4440.00		Contractual Staff

## 15. Status of infrastructure

Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings & Demonstration units	1.6
2.	Under Crops	6.0
3.	Orchard/Agro-forestry (Mother plant nursery)	1.0
4.	Technology park	0.4
5.	Pond	0.2
6.	Encroached and unutilized land	0.8
	<b>Total</b>	<b>10.0</b>

### Provided by ICAR

#### (A) Buildings and others

S. No.	Name of building	Plinth area (sq.m)	Source of funding	Status
1.	Administrative Building	500	I.C.A.R.	Completed & Functioning
2.	Farmers Hostel	300	I.C.A.R.	Completed & Functioning
3.	Staff Quarters (6)	400	I.C.A.R.	Incomplete (Only wall constructed up to lintel level)
5	Fencing		District Administration	Completed
6	Rain Water harvesting structure	120x120x10 ft pond	I.C.A.R.	Incomplete (Micro irrigation system is not installed)
7	Threshing floor		I.C.A.R.	Completed & Functioning
8	Farm godown		I.C.A.R.	Completed & Functioning
9.	Preservation unit		I.C.A.R.	Incomplete
10.	Soil test Lab		District Administration	Functioning
11.	ATIC centre		District Administration	Only building is completed
12.	IT Infrastructure (E-extension system)		I.C.A.R.	Completed but presently V-SAT not working properly
13.	Plant diagnostic lab		I.C.A.R.	Not established
14.	Irrigation channel		I.C.A.R.	Not established
15.	Deep boring		I.C.A.R.	Failed and not functioning
16.	Soil Testing kit		I.C.A.R.	functioning

**16. Fund requirement and expenditure (Rs.)**

	<b>Expenditure (last year) (Rs.)</b>	<b>Expected requirement (Rs. in lakh)</b>
<b><u>Recurring</u> Pay &amp; allowance</b>		
<b>Contingency</b>		
<b>TA</b>		
<b><u>Non-recurring (specify)</u> – Repairing and Maintenance of building and other infrastructure</b>		

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