

# **Annual Action Plan** **(Jan. 2022 - Dec. 2022)**

**Krishi Vigyan Kendra Manpur, Gaya**



**Directorate of Extension Education**



**Bihar Agricultural University, Sabour Bhagalpur**

**ACTION PLAN – (Jan. 2022 – Dec. 2022)**

**1. Name of the KVK: KRISHI VIGYAN KENDRA, MANPUR, GAYA**

Address	Telephone	E mail
Krishi Vigyan Kendra, Manpur, Gaya - 823003		kvkmanpurgaya@gmail.com

**2. Name of host organization : B. A. U., SABOUR, BHAGALPUR, BIHAR**

Address	Telephone		E mail
	Office	FAX	
Vice-Chancellor, Bihar Agricultural University, Sabour, Bhagalpur	0641-2452606	0641-2452606	vcbausabour@gmail.com

**3. Training programme to be organized (January to December, 2022)**

**(a) Farmers and farmwomen**

Thematic area	Title of Training	N o.	Dura tion	Venue On/Of f	Tentativ e Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
<b>Crop Production</b>														
Organic farming	Organic farming of vegetable crops	1	1	On/Off	Jan 2022	5	1	0	0	15	4	20	5	25
Organic farming	Organic farming of field crops	1	1	On/Off	Jan 2022	5	1	0	0	15	4	20	5	25
Organic farming	Natural farming of vegetables crops	1	1	On/Off	Feb 2022	5	1	0	0	15	4	20	5	25
ICM	Package & practices of pulses	1	1	On/Off	Feb 2022	5	1	0	0	15	4	20	5	25
ICM	Package & practices of summer crops	1	1	On/Off	Feb 2022	5	1	0	0	15	4	20	5	25
ICM	Package & practices of summer crops	1	1	On/Off	Mar 2022	5	1	0	0	15	4	20	5	25
Crop production	Scientific cultivation of moong	1	1	On/Off	Mar 2022	5	1	0	0	15	4	20	5	25
Organic farming	Natural farming of sugarcane	1	1	On/Off	Mar 2022	5	1	0	0	15	4	20	5	25
ICM	Package & practices of pulses	1	1	On/Off	Mar 2022	5	1	0	0	15	4	20	5	25
Integrated Crop Management	Package & practices of summer crops	2	1	On/Off	Apr 2022	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Scientific cultivation of sugarcane	2	1	On/Off	Apr 2022	12	4	0	0	36	9	48	13	61
Soil fertility	Method of soil sampling	2	1	On/Off	May 2022	10	2	0	0	30	8	40	10	50
Nursery Management	Methods of nursery raising of rice	2	1	On/Off	May 2022	10	2	0	0	30	8	40	10	50
RCT	Cultivation Technique of Direct Seeded Rice	3	1	On/Off	Jun 2022	18	4	0	0	37	12	55	16	71
Integrated Crop Management	Cultivation technique of pigeon pea	2	1	On/Off	Jun 2022	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of ground nut	1	1	On/Off	Jun 2022	12	3	0	0	14	1	26	4	30
Integrated Crop	Cultivation	1	1	On/Off	July	5	1	0	0	15	4	20	5	25

Thematic area	Title of Training	N o.	Dura tion	Venue On/Of f	Tentativ e Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Management	technique of maize				2022									
Integrated Crop Management	Production technology of transplanted rice	2	1	On/Off	July 2022	10	2	0	0	30	8	40	10	50
Production of organic inputs	Management of vermin-compost unit in rainy season	2	1	On/Off	July 2022	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Production technology of course grain	1	1	On/Off	July 2022	11	3	0	0	16	2	27	5	32
IWM	Integrated weed management in paddy	2	1	On/Off	Aug 2022	10	2	0	0	30	8	40	10	50
INM	Integrated nutrient management in paddy	2	1	On/Off	Sep 2022	10	2	0	0	30	8	40	10	50
Irrigation Management	Irrigation management in paddy	1	1	On/Off	Sep 2022	11	3	0	0	16	2	27	5	32
Natural farming	Zero budet in kharif crops	1	1	On/Off	Sep 2022	11	3	0	0	16	2	27	5	32
Integrated Crop Management	Package & practices of lathyrus	1	1	On/Off	Sep 2022	11	3	0	0	16	2	27	5	32
Integrated Crop Management	Cultivation technique of wheat	2	1	On/Off	Oct 2022	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of rapeseed and mustard	2	1	On/Off	Oct 2022	10	2	0	0	30	8	40	10	50
Integrated Crop Management	Cultivation technique of Lentil	2	1	On/Off	Nov 2022	10	2	0	0	30	8	40	10	50
IWM	Integrated weed management in wheat	2	1	On/Off	Dec 2022	10	2	0	0	30	8	40	10	50
INM	Integrated nutrient management in wheat	2	1	On/Off	Dec 2022	10	2	0	0	30	8	40	10	50
IWM	Integrated weed management in wheat	2	1	On/Off	Dec 2022	10	2	0	0	30	8	40	10	50
	<b>Total</b>	<b>48</b>				<b>276</b>	<b>61</b>	<b>0</b>	<b>0</b>	<b>721</b>	<b>182</b>	<b>997</b>	<b>243</b>	<b>1240</b>
<b>Extension Education</b>														
Organic farming	Natural farming, demand of future	1	1	On/Off	Jan 2022	1	1	0	0	16	2	17	3	20
Entrepreneurship development	Production technology of oyster mushroom	1	1	On/Off	Feb. 2022	1	1	0	0	16	2	17	3	20
Organic farming	Organic farming is the need of the time	1	1	On/Off	Mar 2022	1	1	0	0	16	2	17	3	20
Formation and management of SHGs	Role and improving socio-economic condition through SHGs.	1	1	On/Off	Mar 2022	1	1	0	0	16	2	17	3	20
Information networking	Use of ICT in agriculture for increasing yield	1	1	On/Off	Mar 2022	1	1	0	0	16	2	17	3	20
Information networking	Use of ICT for increasing yield in agriculture	1	1	On/Off	Apr 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	Income generation by means of mushroom production	1	1	On/Off	Apr 2022	5	2	0	0	20	3	25	5	30

Thematic area	Title of Training	N o.	Dura tion	Venue On/Of f	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
management of SHGs	Improving socio-economic condition through SHGs.	1	1	On/Off	Apr 2022	1	1	0	0	16	2	17	3	20
Group dynamics	Utility and need of farmers interest group	1	1	On/Off	May 2022	1	1	0	0	16	2	17	3	20
Group dynamics	Utility and need of farmers interest group	1	1	On/Off	May 2022	1	1	0	0	16	2	17	3	20
Group dynamics	farmers field school is the need of the time for scaling knowledge in agriculture	1	1	On/Off	Jun 2022	1	1	0	0	16	2	17	3	20
Mobilization of social resources	Creating awareness towards best utilization of available resources among farmers	1	1	On/Off	Jun 2022	1	1	0	0	16	2	17	3	20
Group dynamics	Farmer Producer Organization (FPO) is need of the time for enhancing income.	1	1	On/Off	July 2022	1	1	0	0	16	2	17	3	20
Capacity building	Capacity building among farmers for seed production	1	1	On/Off	July 2022	1	1	0	0	16	2	17	3	20
Information networking	Awareness among farmers for daily updates	1	1	On/Off	Aug 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	By- products of beekeeping for increasing income.	1	1	On/Off	Aug 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	Income generation through mushroom Production.	1	1	On/Off	Sep 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	Income generation through mushroom Production.	1	1	On/Off	Sep 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	Enhancing income by means of value added products of mushroom	1	1	On/Off	Oct 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	Honey production for self income generation	1	1	On/Off	Oct 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	Income generation through mushroom Production.	1	1	On/Off	Nov 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	Enhancing income by means of value added products of mushroom	1	1	On/Off	Nov 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	Income generation through mushroom Production.	1	1	On/Off	Dec 2022	1	1	0	0	16	2	17	3	20
Entrepreneurial development	Enhancing income by means of value added products of mushroom	1	1	On/Off	Dec 2022	1	1	0	0	16	2	17	3	20
	<b>Total</b>	<b>24</b>				<b>28</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>388</b>	<b>49</b>	<b>416</b>	<b>74</b>	<b>490</b>
<b>Veterinary Science</b>														
Dairy management	Management of cattle in winter	1	1	On/Off	Jan. 2022	1	1	0	0	16	2	17	3	20

Thematic area	Title of Training	N o.	Dura tion	Venue On/Off	Tentativ e Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Disease management	Management of cattle in FMD	1	1	On/Off	Jan. 2022	1	1	0	0	16	2	17	3	20
Disease management	Infertility management in dairy animal	1	1	On/Off	Feb. 2022	1	1	0	0	16	2	17	3	20
Goat Farming	Small scale goat farming	1	1	On/Off	Feb. 2022	1	1	0	0	16	2	17	3	20
Disease management	Vaccination in dairy animal	1	1	On/Off	Mar 2022	1	1	0	0	16	2	17	3	20
Dairy management	Management of cattle in summer season	1	1	On/Off	Mar 2022	1	1	0	0	16	2	17	3	20
Goat farming	Small scale goat farming	2	1	On/Off	Apr 22/ Oct 22	8	6	0	0	20	6	28	12	40
Feed Management	Treatment of straw with urea	2	1	On/Off	May 22/ Nov 22	8	6	0	0	20	6	28	12	40
Disease Management	Management of HS & BQ in dairy animals	2	1	On/Off	May 22/ Jun 22	8	6	0	0	20	6	28	12	40
Poultry Management	Income generation through backyard poultry	2	1	On/Off	June 22/ Dec 22	8	6	0	0	20	6	28	12	40
Disease Management	Management of infertility in dairy animals	1	1	On/Off	Jul 22	1	1	0	0	16	2	17	3	20
Feed Management	Method of calculation of balanced ration in dairy animals	1	1	On/Off	Jul 22	1	1	0	0	16	2	17	3	20
Poultry Management	Management of commercial broiler	1	1	On/Off	Aug 22	1	1	0	0	16	2	17	3	20
Disease Management	Vaccination in cattle in poultry	1	1	On/Off	Aug 22	1	1	0	0	16	2	17	3	20
Dairy Management	Clean milk production	2	1	On/Off	Sep 22	8	6	0	0	20	6	28	12	40
Feed Management	Fodder production round the year	1	1	On/Off	Sep 22	1	1	0	0	16	2	17	3	20
Disease Management	Management of common diseases of goat	2	1	On/Off	Oct 22	8	6	0	0	20	6	28	12	40
Disease Management	Management & vaccination of FMD in dairy animals	2	1	On/Off	Nov 22/ Dec 22	8	6	0	0	20	6	28	12	40
	<b>Total</b>	<b>25</b>				<b>67</b>	<b>53</b>	<b>0</b>	<b>0</b>	<b>316</b>	<b>64</b>	<b>383</b>	<b>117</b>	<b>500</b>

**(b) Rural youths**

Thematic area	Title of Training	No .	Duration	Venue On/Of f	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
<b>Crop Production</b>														
Seed Production	Seed Production Technology in rice	1	5	ON	June 2022	8	1	0	0	15	1	23	2	25
RCT	Different methods of crop establishment	1	3	ON	July 2022	8	1	0	0	15	1	23	2	25
Production of Organic Inputs	Methods of vermi compost production	1	5	ON	Aug. 2022	8	1	0	0	15	1	23	2	25
Integrated Farming	Cultivation of aromatic and medicinal Plant	1	5	ON	Sept 2022	8	1	0	0	15	1	23	2	25
Seed Production	Seed Production Technology in Wheat	1	5	ON	Nov 2022	8	1	0	0	15	1	23	2	25
Production of Organic Inputs	Production techniques and uses of vermi composting	1	5	ON	Dec 2022	8	1	0	0	15	1	23	2	25
	<b>Total</b>	<b>6</b>				<b>48</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>90</b>	<b>6</b>	<b>138</b>	<b>12</b>	<b>150</b>
<b>Extension Education</b>														
Organic fertilizer	Enhancing Income through Vermi-composting	1	6	ON	June 2022	3	2	0	0	20	5	25	5	30
Beekeeping	Beekeeping and its By- products as the means of self employment	1	6	ON	Sept. 2022	3	2	0	0	20	5	25	5	30
Mushroom Production	Increasing income by mushroom production technology	1	6	ON	Nov. 2022	3	2	0	0	20	5	25	5	30
Value addition	Commercial production of value added products of mushroom	1	6	ON	Feb. 2023	3	2	0	0	20	5	25	5	30
	<b>Total</b>	<b>4</b>	<b>24</b>			<b>12</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>80</b>	<b>20</b>	<b>100</b>	<b>20</b>	<b>120</b>
<b>Veterinary Science</b>														
Goat rearing	Goatry management	4	3	ON	Jan 22 Feb 22 Mar 22	32	24	0	0	80	24	112	48	160
Dairying	Dairy Management	2	4	ON	Mar 22, Aug 22	8	6	0	0	20	6	28	12	40
	<b>Total</b>	<b>6</b>				<b>40</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>30</b>	<b>140</b>	<b>60</b>	<b>200</b>

(c) Extension functionaries

Thrust area/ Thematic area	Title of Training	No .	Durat ion	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
<b>Crop Production</b>														
Productivity enhancement in field crops	Advances in Rabi crops	1	1	Off	Jan 2022	8	1	0	0	15	1	23	2	25
Production and use of organic inputs	Production of vermin-compost	1	1	Off	Feb 2022	8	1	0	0	15	1	23	2	25
Integrated Nutrient Management	INM for sustainable paddy production	1	1	Off	June 2022	8	1	0	0	15	1	23	2	25
Integrated Nutrient Management	Training programme on INM for input dealers	1	15	ON	July 2022	8	1	0	0	15	1	23	2	25
Productivity enhancement in field crops	Integrated Weed Management in Rabi crops	1	1	Off	Oct 2022	8	1	0	0	15	1	23	2	25
RCT	Different methods of crop establishment	1	7	ON	Nov 2022	8	1	0	0	15	1	23	2	25
	<b>Total</b>	<b>6</b>				<b>48</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>90</b>	<b>6</b>	<b>138</b>	<b>12</b>	<b>150</b>
<b>Extension Education</b>														
Mushroom Production	Doubling income by means of scientific mushroom production technology	1	1	ON	Oct.2022	3	2	0	0	18	2	21	4	25
Beekeeping	Beekeeping by scientific methods.	1	1	ON	Aug.2022	3	2	0	0	18	2	21	4	25
	<b>Total</b>	<b>4</b>				<b>12</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>72</b>	<b>8</b>	<b>84</b>	<b>16</b>	<b>100</b>
<b>Veterinary Science</b>														
Disease Management	Management of infertility in cattle	1	1	ON/OFF	Jun 2022	3	5	0	0	5	7	8	12	20
Dairy Management	Scientific management of dairy animals	1	1	ON/OFF	Dec. 2022	3	5	0	0	5	7	8	12	20
	<b>Total</b>	<b>2</b>				<b>6</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>14</b>	<b>16</b>	<b>24</b>	<b>40</b>

#### 4. Frontline demonstration to be conducted\*

##### FLD: 1

**Crop:** Ragi  
**Thrust Area:** Transplanting  
**Thematic Area:** ICT  
**Season:** Kharif 2022  
**Farming Situation:** Upland Medium

##### FLD: 2

**Crop:** Paddy  
**Thrust Area:** ICM Var. Sabour Harshit  
**Thematic Area:** RCT  
**Season:** Kharif 2022-23  
**Farming Situation:** Medium/ Upland

##### FLD: 3

**Crop:** Paddy  
**Thrust Area:** ICM Var. Sabour Sampan  
**Thematic Area:** RCT  
**Season:** Kharif 2022-23  
**Farming Situation:** Medium/ Upland

##### FLD: 4

**Crop:** Wheat  
**Thrust Area:** ZT Var. BHU 31/DBW 187  
**Thematic Area:** ICT  
**Season:** Rabi 2022-23  
**Farming Situation:** Upland Medium

S I. N o.	Crop & variety / Enterprise	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Ragi (A 404)	5	Transplanting	Yield data	Seed, herbicide			8	2	-	-	12	3	20	5	25
2	Paddy (Sabour Harshit)	5	Transplanting	Yield & Economics	Seed			4	1	0	0	7	1	11	2	13
3	Paddy (Sabour Sampan)	2.5	Transplanting	Yield & Economics	Seed			4	1	0	0	7	1	11	2	13
4	Wheat (BHU 31/DBW 187)	10	ZT	Yield data	Seed			8	2	-	-	12	3	20	5	25



### Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field day on Ragi	Field day on Transplanting ragi	2	Practicing farmer	2	Off	26	8	-	-	61	9	87	17	104
Field day	Field day on paddy	1	Practicing farmer	1	Off	34	7	-	-	59	6	93	13	106
Field day	Field day on Early sowing of wheat var. DBW 187	1	Practicing farmer	1	Off	15	4	-	-	44	6	59	10	69
Field day	Field day on high yielding paddy var. S. Harshit	1	Practicing farmer	1	Off	23	8	-	-	59	6	82	14	96

### FLD: 5

**Crop:** Mushroom  
**Thrust Area:** Income & employment generation through cultivation of mushroom  
**Thematic Area:** Mushroom production  
**Season:** Rabi  
**Farming Situation:** Low temperature, High relative humidity inside room

S l. N o.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Name of Inputs	Cost of cultivation	No. of farmers / demonstration								
							SC		ST		Other		Total		
							M	F	M	F	M	F	M	F	T
1	Mushroom (Button mushroom)	250 (No.)	Spawn, compost, chemicals & packaging materials	Yield, BCR	Spawn, compost, chemicals & packaging materials	20000	5	15	0	0	5	25	10	40	50

### Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training/Field day	Scientific cultivation of mushroom	1	50	1 day	ON	5	15	0	0	5	25	10	40	50

**FLD: 6**

**Crop:** Muskmelon  
**Thrust Area:** Income & employment generation through cultivation of muskmelon  
**Thematic Area:** Fruit production  
**Season:** Summer  
**Farming Situation:** Moderate temperature & irrigated condition

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Name of Inputs	Cost of cultivation	No. of farmers / demonstration								
							SC		ST		Other		Total		
							M	F	M	F	M	F	M	F	T
1	Muskmelon (Var. – Madhuras)	1	Seed	Yield, BCR	Seed	5600/ha	5	15	0	0	5	25	10	40	50

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training/ Field day	Scientific cultivation of muskmelon	1	50	1 day	ON	5	15	0	0	5	25	10	40	50

**FLD: 7**

**Crop:** Rye Grass  
**Thrust Area:** Green Fodder  
**Thematic Area:** Fodder Production  
**Season:** Rabi  
**Farming Situation:** Rainfed

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1.	Rye Grass	0.1	Seed	Milk production/animal/day	Seed	6000	-	3	2	0	0	13	2	16	4	20

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
1.	Field day	1	PF	1	Off	5	5	0	0	10	5	15	10	25

**FLD: 8**

**Crop:** Livestock  
**Thrust Area:** Feed Management  
**Thematic Area:** Feed Management  
**Season:** Rabi/Kharif  
**Farming Situation:** Semi intensive

S I. N o.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1.	Livestock	20	Mineral Mixture	Milk production/animal/day	Mineral Mixture	15000	-	3	2	0	0	13	2	16	4	20

**Extension and Training activities under FLD:**

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
1.	Field day	1	PF	1	Off	5	5	0	0	10	5	15	10	25

**4. Frontline demonstration to be conducted\***

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)/No.	No. of farmers/demonstration								
					SC		ST		Others		Total		
					M	F	M	F	M	F	M	F	T
1	Ragi	ICT	Transplanting, Seed (A 404)	5	8	2	-	-	12	3	20	5	25
2	Paddy	ICM	Transplanting, Seed (Sabour Harshit)	5	4	1	0	0	7	1	11	2	13
3	Paddy	ICM	Transplanting, Seed (Sabour Sampan)	2.5	4	1	0	0	7	1	11	2	13
4	Wheat	ICT	ZT, Seed (BHU 31/DBW 187)	10	8	2	-	-	12	3	20	5	25
5	Mushroom	Mushroom production	Spawn, compost, chemicals & packaging materials	250	5	15	0	0	5	25	10	40	50
6	Muskmelon	Fruit production	Seed (Madhuras)	1	5	15	0	0	5	25	10	40	50
7	Rye Grass	Fodder Production	Seed (Makhan grass)	0.1	3	2	0	0	13	2	16	4	20
8	Livestock	Feed Management	Chelated Mineral Mixture	20	3	2	0	0	13	2	16	4	20

5. a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)

Name of the Crop / Enterprise	Variety / Type	Period From Jan. 2022 to Dec. 2022	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Greengram	Virat	Feb 2022	0.5	T/L	2.0	8000	30000	22000
Paddy	R. Sweta	June 2022	3.0	F/S	105.0	120000	472500	352500
Paddy	S. Sampan	June 2022	0.5	F/S	20.0	20000	80000	60000
Wheat	DBW - 187	Nov 2022	4.0	F/S	120.0	120000	540000	420000
Wheat	S. Shrestha	Dec 2022	1.0	F/S	30.0	30000	135000	105000

b) Village Seed Production Programme

Name of the Crop / Enterprise	Variety / Type	Period From..... to .....	Area (ha.)	No. of farmers	Details of Production				
					Type of Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)

## 6. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	10	300	50	350		10	-	10	310	50	360
2.	KisanMela	1	-	-	-	-	-	-	-	-	-	Mass
3.	KisanGhoshi	40	700	100	800		25	10	35	725	110	835
4.	Exhibition	1	-	-	-		-	-	-	-	-	mass
5.	Film Show											
6.	Method Demonstrations	6	60	10	70		3	2	5	63	12	75
7.	Farmers Seminar											
8.	Workshop	1	-	-	-	-	-	-	-	-	-	Mass
9.	Group meetings											
10.	Lectures delivered as resource persons	25	600	20	620		25	15	40	625	35	660
11.	Advisory Services	500	400	100	500		-	-	-	400	100	500
12.	Scientific visit to farmers field	100	60	30	90		10	0	10	70	30	100
13.	Farmers visit to KVK	500	400	100	500					400	100	500
14.	Diagnostic visits	10	40	15	55					40	15	55
15.	Exposure visits	5	150	0	150					150	0	150
16.	Ex-trainees Sammelan											
17.	Soil health Camp											
18.	Animal Health Camp	4	75	25	100	25	0	0	0	75	25	100
19.	Agri mobile clinic											
20.	Soil test campaigns											
21.	Farm Science Club Conveners meet											
22.	Self Help Group Conveners meetings											
23.	MahilaMandals Conveners meetings											
24.	Celebration of important days (specify)											
25.	Any Other (Specify)											
	<b>Total</b>	<b>1203</b>	<b>2785</b>	<b>450</b>	<b>3235</b>	<b>25</b>	<b>73</b>	<b>27</b>	<b>100</b>	<b>2858</b>	<b>477</b>	<b>3335</b>

## 7. Revolving Fund (in Rs.)

Opening balance of 2021-2022 (As on 01.01.2022)	Amount proposed to be invested during 2021-2022	Expected Return
24,67,973.85	3,50,000.00	11,00,000.00

## 8. Expected fund from other sources and its proposed utilization

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

## 9. On-farm trials to be conducted\*

### OFT-1 (Crop Production)

1	<b>Season:</b>	Kharif
2	<b>Title of the OFT:</b>	To access the suitable nitrogen management through different tools on paddy under rice- wheat cropping system
3	<b>Thematic Area:</b>	Integrated nutrient management
4	<b>Problem diagnosed:</b>	Low yield and excessive use of N fertilizer
5	<b>Important Cause:</b>	Injudicious use of fertilizer in paddy
6	<b>Production system:</b>	Rice-Wheat Production System
7	<b>Micro farming system:</b>	Crop production
8	<b>Technology for Testing:</b>	TO <sub>1</sub> – Farmer Practice - 225:40:0 kg NPK/ha TO <sub>2</sub> – Recommended dose of Fertilizer(120:60:40)kg NPK/ha TO <sub>3</sub> –Use of green seeker at 1 <sup>st</sup> and 2 <sup>nd</sup> top dressing(1/2 dose of N and 60:40kg P:K/ha) TO <sub>4</sub> –Use of LCC at 1 <sup>st</sup> and 2 <sup>nd</sup> top dressing(1/2 dose of N and 60:40kg P:K/ha)
9	<b>Existing Practice:</b>	225:40:0kg NPK/ha
10	<b>Hypothesis:</b>	All technology option produce similar yield
11	<b>Objective(s):</b>	To assess the optimum dose of N in paddy To assess the yield & economics of different management practices
12	<b>Treatments:</b>	TO <sub>1</sub> – Farmer Practice - 225:40:0 kg NPK/ha TO <sub>2</sub> – Recommended dose of Fertilizer(120:60:40)kg NPK/ha TO <sub>3</sub> –Use of green seeker at 1 <sup>st</sup> and 2 <sup>nd</sup> top dressing(1/2 dose of N and 60:40kg P:K/ha) TO <sub>4</sub> –Use of LCC at 1 <sup>st</sup> and 2 <sup>nd</sup> top dressing(1/2 dose of N and 60:40kg P:K/ha)
13	<b>Critical Inputs:</b>	Seed
14	<b>Unit Size:</b>	1 acre
15	<b>No of Replications:</b>	7
16	<b>Unit Cost:</b>	Rs 2450=00
17	<b>Total Cost:</b>	Rs 2000 X 7=Rs 14000
18	<b>Monitoring Indicator:</b>	Yield attributes, Yield, Economics
19	<b>Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):</b>	ICAR-RCER Patna

**OFT – 2 (Crop Production)**

1	<b>Season</b>	Rabi
2	<b>Title of the OFT:</b>	To access the suitable herbicide in wheat to control the complex weed flora of South Bihar.
3	<b>Thematic Area:</b>	Integrated Weed management
4	<b>Problem diagnosed:</b>	Low income due to high infestation of weed
5	<b>Important Cause:</b>	Improper application of herbicides
6	<b>Production system:</b>	Rice-wheat Production System
7	<b>Micro farming system:</b>	Crop production
8	<b>Technology for Testing:</b>	Farmer Practice - (Use of 2,4-D Na Salt 1000g/ha at 35DAS) TO <sub>1</sub> –Application of Sulfosulfuron 33g/ha+ Metsulfuron33g/ha at 30DAS TO <sub>2</sub> – Application of Clodinfob ethyl 400g/ha+ Carfentrazone-ethyle 50g/ha at 30DAS
9	<b>Existing Practice</b>	Broad costing of 2,4-D Na salt
10	<b>Hypothesis:</b>	All technology option produce similar yield
11	<b>Objective(s):</b>	To assess the suitable herbicide for control of complex weed flora To assess the economics of different technology option
12	<b>Treatments:</b>	Farmer Practice - (Use of 2,4-D Na Salt 1000g/ha at 35DAS) TO <sub>1</sub> –Application of Sulfosulfuron 33g/ha+ Metsulfuron33g/ha at 30DAS TO <sub>2</sub> – Application of Clodinfob ethyl 400g/ha+ Carfentrazone-ethyle 50g/ha at 30DAS
13	<b>Critical Inputs:</b>	Seed 50 kg/ha, Total, clodinfop and carfentazone
14	<b>Unit Size:</b>	1 acre
15	<b>No of Replications:</b>	7
16	<b>Unit Cost:</b>	Rs 3275=00
17	<b>Total Cost:</b>	Rs 3275X 7=Rs 22925/-
18	<b>Monitoring Indicator:</b>	Yield attributes, Yield, weed studies Economics
19	<b>Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):</b>	ICAR-RCER Patna



### OFT-3 (Crop Production)

1	<b>Season</b>	<b>Kharif</b>
2	<b>Title of the OFT:</b>	To assess the suitable cropping system under rice fallow condition of South Bihar
3	<b>Thematic Area:</b>	Cropping system
4	<b>Problem diagnosed:</b>	<ul style="list-style-type: none"> <li>• Low system productivity &amp; profitability under rice fallow system due to water scarcity</li> <li>• Soil moisture deficiency for next crop</li> </ul>
5	<b>Important Cause:</b>	Low rainfall
6	<b>Production system:</b>	Rice-Lentil/Lathyrus
7	<b>Micro farming system:</b>	Medium upland, rainfed
8	<b>Technology for Testing:</b>	TO <sub>1</sub> (FP) – Rice-Fallow TO <sub>2</sub> –Rice (S. Harshit)-Utera Lentil TO <sub>3</sub> –Rice (S. Harshit)-Utera Lathyrus TO <sub>4</sub> - Rice (S. Harshit)-Utera Linseed
9	<b>Existing Practice</b>	TO <sub>1</sub> – Rice-Fallow
10	<b>Hypothesis:</b>	Less productivity
11	<b>Objective(s):</b>	Yield enhancement with different cropping system
12	<b>Treatments:</b>	Technology option-I (TO-I) ( Farmers Practice (FP)): Rice- Fallow Technology option-II (TO-II): Rice (S. Harshit)-Utera Lentil Technology option-III(TO-III): Rice (S. Harshit)-Utera Lathyrus Technology option-IV (TO-IV): Rice (S. Harshit)-Utera Linseed
13	<b>Critical Inputs:</b>	Seed
14	<b>Unit Size:</b>	1 Acre
15	<b>No of Replications:</b>	7
16	<b>Unit Cost:</b>	3000
17	<b>Total Cost:</b>	21000
18	<b>Monitoring Indicator:</b>	Yield attributes, Net return, B:C ratio, soil moisture status
19	<b>Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):</b>	ICAR-RCER, Patna

#### OFT-4 (Crop Production)

1	<b>Season</b>	<b>Kharif</b>
2	<b>Title of the OFT:</b>	To assess the suitable herbicide to control the weed in paddy
3	<b>Thematic Area:</b>	Weed management
4	<b>Problem diagnosed:</b>	Heavy weed infestation of mixed flora while cyprus rotandus is a serious problem in rice causing reduction in yield
5	<b>Important Cause:</b>	Less yield due to severe infestation of weeds
6	<b>Production system:</b>	Rice-Wheat
7	<b>Micro farming system:</b>	Medium upland
8	<b>Technology for Testing:</b>	TO <sub>1</sub> (FP) – Pretilachlor 750 g a.i/ha as a PE at 0 – 3 DAT TO <sub>2</sub> – TO <sub>1</sub> + Pyrazosulfuron 25 g a.i /ha as a POE at 20 – 25 DAT TO <sub>3</sub> – TO <sub>1</sub> +Pyrazosulfuron 25 g a.i /ha as a POE Fb Bispyribac sodium 25 g a.i/ha as a POE at 20 – 25 DAT
9	<b>Existing Practice</b>	TO <sub>1</sub> (FP) – Pretilachlor as a PE at 0 – 3 DAT
10	<b>Hypothesis:</b>	All technology option produce different yield
11	<b>Objective(s):</b>	<ul style="list-style-type: none"> <li>• To assess the suitable herbicide for control of complex weed flora</li> <li>• To assess the economics of different technology option</li> </ul>
12	<b>Treatments:</b>	TO <sub>1</sub> (FP) – Pretilachlor 750 g a.i/ha as a PE at 0 – 3 DAT TO <sub>2</sub> – TO <sub>1</sub> + Pyrazosulfuron 25 g a.i /ha as a POE at 20 – 25 DAT TO <sub>3</sub> – TO <sub>1</sub> +Pyrazosulfuron 25 g a.i /ha as a POE Fb Bispyribac sodium 25 g a.i/ha as a POE at 20 – 25 DAT
13	<b>Critical Inputs:</b>	Seed and herbicide
14	<b>Unit Size:</b>	1 Acre
15	<b>No of Replications:</b>	7
16	<b>Unit Cost:</b>	4000
17	<b>Total Cost:</b>	28000
18	<b>Monitoring Indicator:</b>	Yield attributes, Net return, B:C ratio, weed studies
19	<b>Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):</b>	CSISA – CYMMYT

**OFT-5 (Extension Education)**

1	<b>Season:</b>	<b>Kharif</b>
2	<b>Title of the OFT:</b>	Assessment of Soil Health Card in paddy of Gaya district
3	<b>Thematic Area:</b>	Soil fertility management
4	<b>Problem diagnosed:</b>	Only few farmers are aware about importance and benefits of Soil Health Card
5	<b>Important Cause:</b>	Non-adoption of recommended dose of fertilizers
6	<b>Production system:</b>	Paddy-Wheat-Green gram
7	<b>Micro farming system:</b>	Timely sown, irrigated condition
8	<b>Technology for Testing:</b>	Survey through questionnaire (dose of fertilizer, time of fertilizer application and method of fertilizer application)
9	<b>Existing Practice:</b>	Overdose/ under dose of fertilizers application
10	<b>Hypothesis:</b>	All farmers are aware of dose of fertilizer recommendations
11	<b>Objective(s):</b>	To know the level of knowledge of the farmers about recommended dose of fertilizers To find the level of adoption of recommended dose of fertilizers To know the increase in yield due to use of fertilizers as per recommendations
12	<b>Treatments:</b>	Farmers Practice - Farmers having no Soil Health Card not applying recommended dose of fertilizer. Option I – Have soil health card but applying as recommendation in training/group meeting Option II – Have soil health card and apply as per recommendation
13	<b>Critical Inputs:</b>	
14	<b>Unit Size:</b>	-
15	<b>No of Replications:</b>	90
16	<b>Unit Cost:</b>	
17	<b>Total Cost:</b>	
18	<b>Monitoring Indicator:</b>	i. Level of knowledge (%) ii. Level of adoption (%) iii. Yield (qt./ha) iv. BCR
19	<b>Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):</b>	BAU, Ranchi, Jharkhand

**OFT-6 (Extension Education)**

1	<b>Season</b>	<b>Rabi</b>
2	<b>Title of the OFT:</b>	Assessment of different Extension Teaching methods used in popularising wheat sowing by Zero Tillage Machine among farmers of Gaya District.
3	<b>Thematic Area:</b>	Capacity building
4	<b>Problem diagnosed:</b>	As a result of high cost of cultivation and late sowing of wheat there is less productivity resulting in less net income
5	<b>Important Cause:</b>	Late harvesting of paddy
6	<b>Production system:</b>	Crop production
7	<b>Micro farming system:</b>	Irrigated
8	<b>Technology for Testing:</b>	1. Level of knowledge (%) 2. Level of adaption (%) 3. B:C ratio
9	<b>Existing Practice</b>	Farmers sowing wheat by broadcasting method after tillage
10	<b>Hypothesis:</b>	Different extension teaching methods perform equally
11	<b>Objective(s):</b>	1. To know the level of knowledge regarding sowing of wheat by ZT method 2. To know the level of adoption of wheat technologies by ZT method 3. To know the production potential of wheat sown by ZT method
12	<b>Treatments:</b>	Farmers Practice – Group of farmers not exposed to any Extension Teaching methods for sowing of wheat by Zero Tillage Machine. TO <sub>1</sub> – Group of farmers given Training +Literature on sowing of wheat by Zero Tillage machine TO <sub>2</sub> - Group of farmers given Training +Demonstration on sowing of wheat by Zero Tillage machine
13	<b>Critical Inputs:</b>	Seed 125 kg
14	<b>Unit Size:</b>	
15	<b>No of Replications:</b>	30 (10 in each)
16	<b>Unit Cost:</b>	
17	<b>Total Cost:</b>	2000
18	<b>Monitoring Indicator:</b>	Field visit and survey
19	<b>Source of Technology (ICAR/AICRP/ SAU/ Other, please specify):</b>	BAU Sabour

**OFT – 7 (Veterinary Science)**

1	<b>Season:</b>	
2	<b>Title of the OFT:</b>	Effect of feeding and local application of herbal medicine on clinical and subclinical mastitis
3	<b>Thematic Area:</b>	Disease management
4	<b>Problem diagnosed:</b>	Mastitis is the major problem in milch animal. Its treatment is costly and loss the milk production
5	<b>Important Cause:</b>	Hormonal imbalance and nutrient deficiency
6	<b>Production system:</b>	Semi-intensive
7	<b>Micro farming system:</b>	Semi-intensive
8	<b>Technology for Testing:</b>	All animals were dewormed before starting trial. Farmer Practice (FP) - Hot fomentation + Aconite 30 @ 10 pills at 30 mint. Interval 4 times TOI – Herbal gel application 5 times for 5 days TO II – Herbal gel application 5 times for 5 days and + Oral herbal 80 ml orally 3 days
9	<b>Treatments:</b>	All animals were dewormed before starting trial. Farmer Practice (FP) - Hot fomentation + Aconite 30 @ 10 pills at 30 mint. Interval 4 times TOI – Herbal gel (lacto mastigel) application 5 times for 5 days TO II – Herbal gel application 5 times for 5 days and + Oral herbal (lacto mastfree) 80 ml orally 3 days
10	<b>Critical Inputs:</b>	Medicine
11	<b>Unit Size:</b>	1
12	<b>No of Replications:</b>	7
13	<b>Unit Cost:</b>	2000
14	<b>Total Cost:</b>	14000
15	<b>Monitoring Indicator:</b>	a) Milk pH b) CMT Test c) No. of days required for recovery of animal
16	<b>Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):</b>	IVRI, Izatnagar

**OFT – 8 (Veterinary Science)**

1	<b>Season:</b>	
2	<b>Title of the OFT:</b>	Evaluation of ethnoveterinary preparation for treatment of retention of placenta (ROP) in cattle
3	<b>Thematic Area:</b>	Disease management
4	<b>Problem diagnosed:</b>	Retention of placenta in cattle
5	<b>Important Cause:</b>	Hormonal imbalance and nutrient deficiency
6	<b>Production system:</b>	Semi-intensive
7	<b>Micro farming system:</b>	Semi-intensive
8	<b>Technology for Testing:</b>	Radish – 2 tuber + 1.5 kg ladyfinger + 250 g jiggery + 25 g salt after caving
9	<b>Existing Practice:</b>	Treatment with medicine
10	<b>Hypothesis:</b>	Ethnoveterinary preparation can treat effectively
11	<b>Objective(s):</b>	To evaluate the ethnoveterinary preparation
12	<b>Treatments:</b>	Farmer Practice (FP) - Rice husk TOI – Radish – 2 tuber + 1.5 kg ladyfinger + 250 g jiggery + 25 g salt after caving TO II – Exapar @ 100 ml x 2
13	<b>Critical Inputs:</b>	Medicine
14	<b>Unit Size:</b>	1
15	<b>No of Replications:</b>	10
16	<b>Unit Cost:</b>	Rs. 250.00
17	<b>Total Cost:</b>	Rs 250/- x 10 = 2500/-
18	<b>Monitoring Indicator:</b>	No. of animal effectively treated
19	<b>Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):</b>	NDDDB, Anand, Gujarat

**10. List of Projects to be implemented by funding from other sources (other than KVK fund)**

Sl. No.	Name of the project	Fund expected (Rs.)
1.	GKMS	4.80 Lakh
2.	CRAP	9.0 Lakh

**11. No. of success stories proposed to be developed with their tentative titles**

- 1 – Mushroom Production
- 2 – Integrated Farming System
- 3 – Goat farming

**12. Scientific Advisory Committee**

Date of SAC meeting held during 2022-23	Proposed date during 2023
16 August, 2022	16 August, 2023

**13. Soil and water testing**

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	70	9	0	0	0	52	9	61	9	70	5	70
Water Samples												
Other (Please specify)												
<b>Total</b>	<b>70</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>9</b>	<b>61</b>	<b>9</b>	<b>70</b>	<b>5</b>	<b>70</b>

**14. Fund requirement and expenditure (Rs.)\***

Heads	Expenditure (last year) (Rs.) up to 31.03.2022	Expected fund requirement (Rs.)
Pay and Allowance	1,78,97,467	1,60,30,000.00
T.A.	69,314	1,50,000.00
HRD	13,000	60,000.00
Contingency	11,35,951	15,00,000.00
Capital	70,000	5,00,000.00
Vehicle	0.0	0.0
<b>Total</b>	<b>1,91,85,732.00</b>	<b>1,82,40,000.00</b>

\* Any additional requirement may be suitably justified.

**15. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data**

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