ACTION PLAN

2024-2025

Submitted to

ICAR - Agricultural Technology Application Research Institute, Zone – IV
Central Potato Research Station Campus
P.O - Sahay Nagar, Patna, Bihar
Pin : 801506

Submitted By

Divyayan Krishi Vigyan Kendra, Ranchi
(Ramakrishna Mission Ashrama, Morabadi)

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ACTION PLAN 2024-2025

1. Name of the KVK:

Address	**Telephone**		**E mail**
Divyayan Krishi Vigyan Kendra, Ranchi	0651-	2551008, 2551970	kvk.divyayan@gmail.com

Name of host organization:

Address	**Telephone**		**E mail**
	Office	**FAX**	
Ramakrishna Mission Ashrama, Morabadi, Ranchi-834004	0651-2551008, 2551970		ranchi.morabadi@rkmm.org

2.TRAINING PROGRAMME TO BE ORGANIZED (APRIL 2024 TO MARCH 2025)

(a) Farmers and farmwomen (off campus)

Thematic area	Title of Training	No.	Duration (Day/s)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	
Production and management technology of Vegetables	Package & practices of tuber crops	01	01	OFF	5 JUNE	0	0	12	05	06	02	18	07	**25**
Production of low volume & high value crop	Cultivation of Kharif Onion & Potato	01	01	OFF	17 JUNE	0	0	14	04	05	02	19	06	**25**
Natural resource management	Organic vegetables cultivation	01	01	OFF	09 JULY	03	02	14	04	05	02	19	06	**25**
Production and management technology	Vegetable Nursery Production for Rabi Crops	01	01	OFF	12 SEPT	03	02	14	04	05	02	19	06	**25**
Exotic vegetables	Cultivation of Broccoli	01	01	OFF	15 OCT	0	0	14	04	05	02	19	06	**25**
Production of low volume & high value crop	Vegetable cultivation for Rabi season	01	01	OFF	22 NOV	0	0	14	04	05	02	19	06	**25**
Grading and standardization	Importance of grading and standardization of tomato and potato	01	01	OFF	12 DEC	0	0	14	04	05	02	19	06	**25**
Protected Cultivation Off season vegetable	Off-season vegetable production	02	01	OFF	05 JAN	0	0	28	08	010	04	38	012	**50**
Water Conservation	Vegetable production with Drip irrigation and mulching	01	01	OFF	20 JAN	03	02	14	04	05	02	19	06	**25**
Fruit production	Commercial cultivation of	01	01	OFF	18 FEB	03	02	14	04	05	02	19	06	**25**

	papaya													
Management of potted plants	Scientific management of ornamental & potted plants	01	01	OFF	10 MAR	0	0	14	04	05	02	19	06	**25**
Total		**12**	**-**	**OFF**		**12**	**8**	**168**	**48**	**65**	**24**	**228**	**72**	**300**

	Title of Training	**No.**	**Duration (Day/s)**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		**Total**
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Integrated disease management & IPM	Integrated disease and pest management of the major rainy vegetables	01	1	OFF	26 JUNE	3	0	10	6	3	4	16	10	26
Integrated Pest management	Methods of soil treatments for Kharif crops	01	1	OFF	12 JULY	**3**	**0**	**9**	**6**	**3**	**4**	15	10	25
NRLM	Scientific Beekeeping	01	1	OFF	22 JULY	3	0	12	6	3	4	18	10	28
Integrated Pest management	Management of insect pest and disease in Rice & Maize	01	1	ON	23 AUG	**2**	**0**	**10**	**6**	**3**	**4**	15	10	25
Integrated Pest management	Management of insect pest and disease in major kharif pulses crop (urd, arhar)	02	1	ON	16 SEPT	**1**	**0**	**19**	**6**	**16**	**4**	35	10	45
NRLM	Scientific lac cultivation	01	1	OFF	22 SEPT	3	0	12	6	3	4	18	10	28
Production of bio pesticides	Techniques of bio pesticides production and their uses	01	1	OFF	12 OCT	4	0	8	6	4	4	16	10	26
Integrated Pest management	Management of insect pest & disease in rabi	01	1	ON	28 NOV	**3**	**0**	**9**	**6**	**3**	**4**	15	10	25

	vegetables													
Integrated Pest management	Management of insect pest in rabi pulses crop (pea, gram, lentil)	01	1	ON	13 DEC	3	0	9	6	3	4	15	10	25
Integrated disease management	Management of disease in rabi pulses crop (pea, gram, lentil)	01	1	OFF	24 DEC	3	0	9	6	3	4	15	10	25
Integrated Pest management	Control of storage grain pest	02	1	ON	12 FEB	3	0	9	16	3	4	15	20	35
Total		**13**				**31**	**0**	**116**	**76**	**47**	**44**	**193**	**120**	**313**

	Title of Training	**No.**	**Duration (Day/s)**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		**Total**
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Health & Hygiene	Balance Diet	1	1	OFF	05 JUNE	--	--	--	25	--	5	0	30	30
Value Addition	Processing of Mango	1	1	OFF	09 JULY	--	--	--	25	--	5	0	30	30
Value addition	Processing of Chenopodium Album	1	1	OFF	12 AUG	--	--	--	25	--	5	0	30	30
Drudgery Reduction	Use drudgery reducing implements for drying products	1	1	OFF	16 OCT	--	--	--	25	--	5	0	30	30
Value Addition	Processing of Cauliflower	1	2	OFF	29 OCT	--	--	--	25	--	5		30	30
Child Development	Importance of Infancy period	1	1	OFF	25 DEC	--	--	--	25	--	5		30	30
Women Empowerment	Making Basket through Bamboo stick	1	1	OFF	15 JAN	--	--	--	25	--	5		30	30
Women Empowerment	Processing of finger millet	1	1	OFF	21 FEB	--	--	--	25	--	5		30	30
Women	Stain removal	1	1	OFF	12	--	--	--	25	--	5		30	30

Empowerment	technique				APRIL									
Nutritional Security	Kitchen Gardening	1	1	OFF	07 MAY	--	--	--	25	--	5		30	30
Total		**10**				**0**	**0**	**0**	**250**	**0**	**50**	**0**	**300**	**300**

	Title of Training	**No.**	**Duration (Day/s)**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		**Total**
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Seed Treatment	Different seed treatment in paddy	1	1	OFF	12 JUNE	3	2	14	4	5	2	22	8	30
Seed Production	Paddy and pulse seed production	1	1	OFF	28 JUNE	3	2	14	4	5	2	22	8	30
Crop Production	Dapog method of nursery raising in paddy	1	1	OFF	05 JULY	3	2	14	4	5	2	22	8	30
Organic farming	Organic method of paddy cultivation	1	1	OFF	22 JULY	3	2	14	4	5	2	22	8	30
Crop Improvement	Cultivation of disease tolerant varieties in tomato during Kharif	1	1	OFF	12 AUG	3	2	14	4	5	2	22	8	30
Crop Improvement	Early varieties in potato and its cultivation	1	1	OFF	27 AUG	3	2	14	4	5	2	22	8	30
Crop Improvement	Early varieties of pea and its cultivation	2	1	OFF	06 Sept	4	3	17	10	15	5	36	18	54
Crop **Improvement**	Improved varieties of wheat & gram and their seed production	1	1	OFF	18 OCT	3	2	14	4	5	2	22	8	30
Seed quality enhancement	Seed priming in onion seed	1	1	OFF	11 NOV	3	2	14	4	5	2	22	8	30
Seed Storage	Processing and Storage of Paddy.	1	1	OFF	19 DEC	3	2	14	4	5	2	22	8	30
Seed storage	Conventional methods of seed storage.	1	1	OFF	20 JAN	3	2	14	4	5	2	22	8	30

Crop Improvement	Summer varieties of green gram and their cultivation	1	1	OFF	06 FEB	3	2	14	4	5	2	22	8	30
Total		**12**				**37**	**25**	**171**	**54**	**70**	**27**	**278**	**106**	**384**

	Title of Training	**No.**	**Duration (Day/s)**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		**Total**
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Crop Management	Package & practices of pigeon pea	1	1	OFF	10 MAY	3	2	14	4	5	2	22	8	30
Integrated crop management	Rice, Maize, and Millet production Technology	1	1	OFF	12 JUNE	3	2	14	4	5	2	22	8	30
Production of organic inputs	Low cost organic inputs for reducing the input cost	1	1	OFF	14 JUNE	3	2	14	4	5	2	22	8	30
Integrated crop management	Kharif pulses Pigeon pea, Green Gram, & Black Gram, production technology	1	1	OFF	16 JULY	3	2	14	4	5	2	22	8	30
Integrated crop management	Kharif Oilseeds Nizer &sesamum production technology	1	1	OFF	23 JULY	3	2	14	4	5	2	22	8	30
Crop diversification	Crop diversification a strategies for profitable agriculture	1	1	OFF	14 AUG	3	2	14	4	5	2	22	8	30
Weed management	Weed management in Kharif crop	1	1	OFF	17 AUG	3	2	14	4	5	2	22	8	30
Cropping Systems	Better cropping system for sustainable income	1	1	OFF	21 AUG	3	2	14	4	5	2	22	8	30
Integrated	Integrated nutrient	1	1	OFF	18 SEP	3	2	14	4	5	2	22	**8**	**30**

Nutrient Management	management in Kharif crop													
Integrated crop management	Pulses production technology for rabi crop (Gram, Lentil & pea)	1	1	OFF	23 OCT	3	2	14	4	5	2	22	**8**	**30**
Integrated crop management	Oilseeds production technology for rabi crop (Mustard & Lin seed)	1	1	OFF	16 OCT	3	2	14	4	5	2	22	**8**	**30**
Integrated Nutrient management	Integrated Nutrient management in Rabi crop.	1	1	OFF	20 NOV	3	2	14	4	5	2	22	**8**	**30**
Integrated crop management	Wheat, Barley production technology	1	1	OFF	13 NOV	3	2	14	4	5	2	22	**8**	**30**
Nursery management	Nursery management for kharif SRI paddy	1	1	OFF	15 JAN	3	2	14	4	5	2	22	**8**	**30**
Total		**14**				**42**	**28**	**196**	**56**	**70**	**28**	**308**	**112**	**420**

	Title of Training	**No.**	**Duration (Day/s)**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Others**		**Total**		**Total**
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Disease Management	Role of PPR vaccine in goats	1	1	OFF	9 MAY	1	1	21	7	0	--	22	8	30
Duck cum fish farming	Duck farming/ Fish farming	1	1	OFF	12 JUNE	1	1	21	7	0	--	22	8	30
Fodder conservation	Hey and silage making	1	1	OFF	14 JUNE	0	1	16	3	1	9	17	13	30
Milk production	Clean milk production	1	1	OFF	14 AUG	0	1	16	3	1	9	17	13	30
Piggery	Pig farming & management	1	1	OFF	18 SEP	3	1	20	3	5	--	28	4	32
Dairy	Management of	1	1	OFF	21	1	1	21	7	0	--	22	8	30

management	dairy animal				OCT									
Disease management	Weather based disease management programme (Summer, Winter, Rainy)	3	1	OFF	18 – 30 NOV	5	1	45	3	25	6	80	10	90
Control of ecto-parasite	Prevention and treatment of ecto-parasite	1	1	OFF	23 DEC	3	1	20	3	5	--	28	4	32
Goat management	Balanced animal feed	3	1	OFF	16 FEB	3	1	60	23	5	--	68	24	92
Total		**13**				**17**	**9**	**240**	**59**	**42**	**24**	**304**	**92**	**396**
INM	Nutrient management in paddy	1	1	OFF	7 AUG	1	1	21	7	0	--	22	8	30
Micronutrient deficiency in crop	Management of boron application in cauliflower	1	1	OFF	10 SEP	0	1	16	3	1	9	17	13	30
Bio Fertilizer	Use of rhizobium culture/ Azotobacter/ PSB	1	1	OFF	11 OCT	1	1	20	3	5	--	26	4	30
Integrated Nutrient management	Fertilizer management in all Rabi crop (Wheat).	1	1	OFF	20 NOV	1	1	21	7	0	--	22	8	30
Soil health management	Soil health management and Correct method of soil sampling.	1	1	OFF	14 FEB	1	1	21	7	0	--	22	8	30
TOTAL		**5**	**-**	**-**	**-**	**4**	**5**	**99**	**27**	**6**	**9**	**109**	**41**	**150**
All Total (OFF)		**79**				**143**	**75**	**990**	**570**	**300**	**206**	**1420**	**843**	**2263**

Farmers and farmwomen (on campus)

	Title of Training	No.	Duration (Day/s)	Venue On	Tentative Date	No. of Participants								
						SC		ST		Other		Total		Total
						M	F	M	F	M	F	M	F	
***Integrated farming System**	Lac/Goat Based IFS	10	45	On	15 April to 15 February	0	0	100	400	0	0	100	400	500
Crop improvement	Scientific onion cultivation	1	1	On	20 July	0	0	5	2	10	3	15	5	20
Seed Production	Seed production & certification	1	1	On	15 Sept	0	0	10	2	8	0	18	2	20
Disease Management	Disease Management in chilly	1	1	On	10 Sept	0	0	10	2	8	0	18	2	20
Women Empowerment	Making Basket through Bamboo stick	1	1	On	15 January	0	0	5	2	10	3	15	5	20
Agricultural Eng	Maintenance of agricultural implements	1	1	On	15 February	0	0	5	2	10	3	15	5	20
Total		**15**		**On**		**0**	**0**	**135**	**410**	**46**	**9**	**181**	**419**	**600**

***Institute Training sponsored by Ministry of tribal affairs, Govt of India

(b) Rural Youth (On Campus)

Thematic area	Title of Training	No.	Duration (Day/s)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Value addition	Mushroom cultivation	2	05	ON	15 to 19 JUNE & Aug	2	0	30	08	06	04	38	12	50
Natural resource Management	Cultivation of Lac	2	5	ON	12 FEB	0	2	30	4	10	4	40	10	50
Bee-Keeping	Honey Production	4	5	ON	5-30 Sep	2	1	65	10	10	11	77	22	99
Value addition	Food Processing (Turmeric)	1	5	ON	August	0	0	0	10	0	10	0	20	20
Seed production	Seed production, Processing and storage	2	5	ON	4-8 NOV& 10-14 FEB	2	0	30	08	06	04	38	12	50
Natural Resource management	Natural farming	3	5	ON	10 May to 15th Oct	2	1	45	18	12	9	59	28	87
Resource Management	Low Cost local resource based Organic Farming	2	5	ON	JAN to MAR	2	0	30	08	06	04	38	12	50
Goatery	Care and Management of goat	2	5	ON	10-15 OCT	2	0	30	08	06	04	38	12	50
Nutrient Management	Integrated Nutrient Management for Input Dealers	2	15	ON	JULY & FEB	0	0	20	10	10	10	30	20	50
Integrated farming System	Crop based IFS	2	5	ON	15-25 January	2	0	30	08	06	04	38	12	50
Farm Implements	Use of agricultural implements	2	5	ON	10-25 February	0	0	30	5	5	5	35	10	45
TOTAL		**24**	**-**	**-**	**-**	**14**	**4**	**340**	**97**	**77**	**69**	**431**	**170**	**601**

3. Extension functionaries (On campus)

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue ON	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Livestock feed and Fodder Production	Package and Practices of Berseem Crop	1	1	**ON**	10 DEC	1	0	22	6	6	1	29	7	36
Weed Management	Weed management n Green gram	1	1	**ON**	16 DEC	1	0	22	6	6	1	29	7	36
NRM	Scientific bee-keeping	2	1	**ON**	16 FEB	1	0	35	12	15	3	51	15	66
Total		**4**	**1**			**3**	**0**	**79**	**24**	**27**	**5**	**109**	**29**	**138**

Extension functionaries (OFF Campus)

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
IPM	IPM in Brinjal crop	1	1	**Off**	22AUG	1	0	18	6	25	9	44	15	59
Management in Farm Animal	Disease management in Goat	2	1	**Off**	1 NOV 10 DEC	2	0	44	12	12	2	58	14	72
Weed Management	Weed management n Green gram	1	1	**Off**	16 DEC	1	0	22	6	6	1	29	7	36
Total		**4**	**1**	**4**	**0**	**3**	**0**	**84**	**24**	**43**	**12**	**131**	**36**	**167**

4. Abstract of Training: Consolidated table (ON and OFF Campus)

4. a. Farmers and Farm women

Thematic area	Title of Training	No.	Duration (Day/s)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	
Production and management technology of Vegetables	Package & practices of tuber crops	01	01	OFF	5 JUNE	0	0	12	05	06	02	18	07	**25**
Production of low volume & high value crop	Cultivation of Kharif Onion & Potato	01	01	OFF	17 JUNE	0	0	14	04	05	02	19	06	**25**
Natural resource management	Organic vegetables cultivation	01	01	OFF	09 JULY	03	02	14	04	05	02	19	06	**25**
Production and management technology	Vegetable Nursery Production for Rabi Crops	01	01	OFF	12 SEPT	03	02	14	04	05	02	19	06	**25**
Exotic vegetables	Cultivation of Broccoli	01	01	OFF	15 OCT	0	0	14	04	05	02	19	06	**25**
Production of low volume & high value crop	Vegetable cultivation for Rabi season	01	01	OFF	22 NOV	0	0	14	04	05	02	19	06	**25**
Grading and standardization	Importance of grading and standardization of tomato and potato	01	01	OFF	12 DEC	0	0	14	04	05	02	19	06	**25**
Protected Cultivation Off season vegetable	Off-season vegetable production	02	01	OFF	05 JAN	0	0	28	08	010	04	38	012	**50**
Water Conservation	Vegetable production with Drip irrigation and mulching	01	01	OFF	20 JAN	03	02	14	04	05	02	19	06	**25**
Fruit production	Commercial	01	01	OFF	18 FEB	03	0	14	04	05	02	19	06	**25**

	cultivation of papaya						2							
Management of potted plants	Scientific management of ornamental & potted plants	01	01	OFF	10 MAR	0	0	14	04	05	02	19	06	**25**
Crop improvement	Scientific onion cultivation	1	5	On	20 July	0	0	5	2	10	3	15	5	20
Total		**13**	**-**	**OFF/ON**		**12**	**8**	**171**	**51**	**71**	**27**	**242**	**78**	**320**

	Title of Training	**No.**	**Duration (Day/s)**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		**Total**
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Integrated disease management & IPM	Integrated disease and pest management of the major rainy vegetables	01	1	OFF	26 JUNE	3	0	10	6	3	4	16	10	26
Integrated Pest management	Methods of soil treatments for Kharif crops	01	1	OFF	12 JULY	**3**	**0**	**9**	**6**	**3**	**4**	15	10	25
NRLM	Scientific Beekeeping	01	1	OFF	22 JULY	3	0	12	6	3	4	18	10	28
Integrated Pest management	Management of insect pest and disease in Rice & Maize	01	1	ON	23 AUG	**2**	**0**	**10**	**6**	**3**	**4**	15	10	25
Integrated Pest management	Management of insect pest and disease in major kharif pulses crop (urd, arhar)	02	1	ON	16 SEPT	**1**	**0**	**19**	**6**	**16**	**4**	35	10	45
NRLM	Scientific lac cultivation	01	1	OFF	22 SEPT	3	0	12	6	3	4	18	10	28
Production of bio pesticides	Techniques of bio pesticides	01	1	OFF	12 OCT	4	0	8	6	4	4	16	10	26

	production and their uses													
Integrated Pest management	Management of insect pest & disease in rabi vegetables	01	1	ON	28 NOV	**3**	**0**	**9**	**6**	**3**	**4**	15	10	25
Integrated Pest management	Management of insect pest in rabi pulses crop (pea, gram, lentil)	01	1	ON	13 DEC	3	0	9	6	3	4	15	10	25
Integrated disease management	Management of disease in rabi pulses crop (pea, gram, lentil)	01	1	OFF	24 DEC	3	0	9	6	3	4	15	10	25
Integrated Pest management	Control of storage grain pest	02	1	ON	12 FEB	3	0	9	16	3	4	15	20	35
***Integrated farming System**	Lac/Goat Based IFS	10	45	On	15 April to 15 Februar y	0	0	100	400	0	0	100	400	500
Total		**23**				**31**	**0**	**216**	**476**	**47**	**44**	**293**	**520**	**813**

	Title of Training	**No.**	**Duration (Day/s)**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		**Total**
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Health & Hygiene	Balance Diet	1	1	OFF	05 JUNE	--	--	--	25	--	5	0	30	30
Value Addition	Processing of Mango	1	1	OFF	09 JULY	--	--	--	25	--	5	0	30	30
Value addition	Processing of Chenopodium Album	1	1	OFF	12 AUG	--	--	--	25	--	5	0	30	30
Drudgery Reduction	Use drudgery reducing implements for drying products	1	1	OFF	16 OCT	--	--	--	25	--	5	0	30	30
Value Addition	Processing of	1	2	OFF	29 OCT	--	--	--	25	--	5		30	30

	Cauliflower													
Child Development	Importance of Infancy period	1	1	OFF	25 DEC	--	--	--	25	--	5		30	30
Women Empowerment	Making Basket through Bamboo stick	1	1	OFF	15 JAN	--	--	--	25	--	5		30	30
Women Empowerment	Processing of finger millet	1	1	OFF	21 FEB	--	--	--	25	--	5		30	30
Women Empowerment	Stain removal technique	1	1	OFF	12 APRIL	--	--	--	25	--	5		30	30
Nutritional Security	Nutritional Gardening	1	1	OFF	07 MAY	--	--	--	25	--	5		30	30
Women Empowerment	Making Basket through Bamboo stick	1	1	On	15 January	0	0	5	2	10	3	15	5	20
Total		**11**				**0**	**0**	**5**	**252**	**10**	**53**	**15**	**305**	**320**

	Title of Training	**No.**	**Duration (Day/s)**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		**Total**
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Seed Treatment	Different seed treatment in paddy	1	1	OFF	12 JUNE	3	2	14	4	5	2	22	8	30
Seed Production	Paddy and pulse seed production	1	1	OFF	28 JUNE	3	2	14	4	5	2	22	8	30
Crop Production	Dapog method of nursery raising in paddy	1	1	OFF	05 JULY	3	2	14	4	5	2	22	8	30
Organic farming	Organic method of paddy cultivation	1	1	OFF	22 JULY	3	2	14	4	5	2	22	8	30
Crop Improvement	Cultivation of disease tolerant varieties in tomato during Kharif	1	1	OFF	12 AUG	3	2	14	4	5	2	22	8	30
Crop Improvement	Early varieties in potato and its cultivation	1	1	OFF	27 AUG	3	2	14	4	5	2	22	8	30
Crop	Early varieties of	2	1	OFF	06 Sept	4	3	17	10	15	5	36	18	54

Improvement	pea and its cultivation													
Crop **Improvement**	Improved varieties of wheat & gram and their seed production	1	1	OFF	18 OCT	3	2	14	4	5	2	22	8	30
Seed quality enhancement	Seed priming in onion seed	1	1	OFF	11 NOV	3	2	14	4	5	2	22	8	30
Seed Storage	Processing and Storage of Paddy.	1	1	OFF	19 DEC	3	2	14	4	5	2	22	8	30
Seed storage	Conventional methods of seed storage.	1	1	OFF	20 JAN	3	2	14	4	5	2	22	8	30
Crop Improvement	Summer varieties of green gram and their cultivation	1	1	OFF	06 FEB	3	2	14	4	5	2	22	8	30
Seed Production	Seed production & certification	1	1	On	15 Sept	0	0	10	2	8	0	18	2	20
Total		**14**				**37**	**25**	**181**	**56**	**78**	**27**	**296**	**108**	**404**

	Title of Training	**No.**	**Duration (Day/s)**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		**Total**
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	
Crop Management	Package & practices of pigeon pea	1	1	OFF	10 MAY	3	2	14	4	5	2	22	8	30
Integrated crop management	Rice, Maize, and Millet production Technology	1	1	OFF	12 JUNE	3	2	14	4	5	2	22	8	30
Production of organic inputs	Low cost organic inputs for reducing the input cost	1	1	OFF	14 JUNE	3	2	14	4	5	2	22	8	30
Integrated crop management	Kharif pulses Pigeon pea, Green Gram, & Black Gram, production technology	1	1	OFF	16 JULY	3	2	14	4	5	2	22	8	30

Integrated crop management	Kharif Oilseeds Nizer &sesamum production technology	1	1	OFF	23 JULY	3	2	14	4	5	2	22	8	30
Crop diversification	Crop diversification a strategies for profitable agriculture	1	1	OFF	14 AUG	3	2	14	4	5	2	22	8	30
Weed management	Weed management in Kharif crop	1	1	OFF	17 AUG	3	2	14	4	5	2	22	8	30
Cropping Systems	Better cropping system for sustainable income	1	1	OFF	21 AUG	3	2	14	4	5	2	22	8	30
Integrated Nutrient Management	Integrated nutrient management in Kharif crop	1	1	OFF	18 SEP	3	2	14	4	5	2	22	**8**	**30**
Integrated crop management	Pulses production technology for rabi crop (Gram, Lentil & pea)	1	1	OFF	23 OCT	3	2	14	4	5	2	22	**8**	**30**
Integrated crop management	Oilseeds production technology for rabi crop (Mustard & Lin seed)	1	1	OFF	16 OCT	3	2	14	4	5	2	22	**8**	**30**
Integrated Nutrient management	Integrated Nutrient management in Rabi crop.	1	1	OFF	20 NOV	3	2	14	4	5	2	22	**8**	**30**
Integrated crop management	Wheat, Barley production technology	1	1	OFF	13 NOV	3	2	14	4	5	2	22	**8**	**30**
Nursery management	Nursery management for kharif SRI paddy	1	1	OFF	15 JAN	3	2	14	4	5	2	22	**8**	**30**
Total		**14**				**42**	**28**	**196**	**56**	**70**	**28**	**308**	**112**	**420**

	Title of Training	No.	Duration (Day/s)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Others		Total		Total
						M	F	M	F	M	F	M	F	
Disease Management	Role of PPR vaccine in goats	1	1	OFF	9 MAY	1	1	21	7	0	--	22	8	30
Duck cum fish farming	Duck farming/ Fish farming	1	1	OFF	12 JUNE	1	1	21	7	0	--	22	8	30
Fodder conservation	Hey and silage making	1	1	OFF	14 JUNE	0	1	16	3	1	9	17	13	30
Milk production	Clean milk production	1	1	OFF	14 AUG	0	1	16	3	1	9	17	13	30
Piggery	Pig farming & management	1	1	OFF	18 SEP	3	1	20	3	5	--	28	4	32
Dairy management	Management of dairy animal	1	1	OFF	21 OCT	1	1	21	7	0	--	22	8	30
Disease management	Weather based disease management programme (Summer, Winter, Rainy)	3	1	OFF	18 – 30 NOV	5	1	45	3	25	6	80	10	90
Control of ecto-parasite	Prevention and treatment of ecto-parasite	1	1	OFF	23 DEC	3	1	20	3	5	--	28	4	32
Goat management	Balanced animal feed	3	1	OFF	16 FEB	3	1	60	23	5	--	68	24	92
Total		**13**				**17**	**9**	**240**	**59**	**42**	**24**	**304**	**92**	**396**
INM	Nutrient management in paddy	1	1	OFF	7 AUG	1	1	21	7	0	--	22	8	30
Micronutrient deficiency in crop	Management of boron application in cauliflower	1	1	OFF	10 SEP	0	1	16	3	1	9	17	13	30
Agricultural Eng	Maintenance of agricultural	1	1	On	15 Februar	0	0	5	2	10	3	15	5	20

	implements				y									
Bio Fertilizer	Use of rhizobium culture/ Azotobacter/ PSB	1	1	OFF	11 OCT	1	1	20	3	5	--	26	4	30
Integrated Nutrient management	Fertilizer management in all Rabi crop (Wheat).	1	1	OFF	20 NOV	1	1	21	7	0	--	22	8	30
Soil health management	Soil health management and Correct method of soil sampling.	1	1	OFF	14 FEB	1	1	21	7	0	--	22	8	30
TOTAL		**6**	**-**	**-**	**-**	**4**	**5**	**104**	**29**	**16**	**12**	**124**	**46**	**170**
All Total (OFF)		**94**				**143**	**75**	**1113**	**979**	**334**	**215**	**1582**	**1261**	**2843**

4.b. Rural youth (OFF Campus & ON Campus)

Thematic area	Title of Training	No.	Duration (Day/s)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Value addition	Mushroom cultivation	2	05	ON	15 to 19 JUNE & Aug	2	0	30	08	06	04	38	12	50
Natural resource Management	Cultivation of Lac	2	5	ON	12 FEB	0	2	30	4	10	4	40	10	50
Bee-Keeping	Honey Production	4	5	ON	5-30 Sep	2	1	65	10	10	11	77	22	99
Value addition	Food Processing (Turmeric)	1	5	ON	August	0	0	0	10	0	10	0	20	20
Seed production	Seed production, Processing and storage	2	5	ON	4-8 NOV& 10-14 FEB	2	0	30	08	06	04	38	12	50
Natural Resource management	Natural farming	3	5	ON	10 May to 15th Oct	2	1	45	18	12	9	59	28	87
Resource Management	Low Cost local resource based Organic Farming	2	5	ON	JAN to MAR	2	0	30	08	06	04	38	12	50
Goatery	Care and Management of goat	2	5	ON	10-15 OCT	2	0	30	08	06	04	38	12	50
Nutrient Management	Integrated Nutrient Management for Input Dealers	2	15	ON	JULY & FEB	0	0	20	10	10	10	30	20	50
Integrated farming System	Crop based IFS	2	5	ON	15-25 January	2	0	30	08	06	04	38	12	50

Farm Implements	Use of agricultural implements	2	5	ON	10-25 Februar y	0	0	30	5	5	5	35	10	45
TOTAL		**24**	**-**	**-**	**-**	**14**	**4**	**340**	**97**	**77**	**69**	**431**	**170**	**601**

Extension functionaries (OFF &ON)

Thrust area/ Thematic area	**Title of Training**	**No.**	**Duration**	**Venue ON**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Livestock feed and Fodder Production	Package and Practices of Berseem Crop	1	1	**ON**	10 DEC	1	0	22	6	6	1	29	7	36
Weed Management	Weed management n Green gram	2	1	**ON**	16 DEC	2	0	44	12	12	2	58	14	72
NRM	Scientific bee-keeping	2	1	**ON**	16 FEB	1	0	35	12	15	3	51	15	66
IPM	IPM in Brinjal crop	1	1	**Off**	22AUG	1	0	18	6	25	9	44	15	59
Management in Farm Animal	Disease management in Goat	2	1	**Off**	1 NOV 10 DEC	2	0	44	12	12	2	58	14	72
Total		**8**	**1**			**7**	**0**	**163**	**48**	**70**	**17**	**240**	**65**	**305**

5. Frontline demonstration to be conducted*

I **Crop** : Cucurbits
Thrust Area : Environmental control
Thematic Area : Off season nursery production
Season : Kharif/Rabi
Farming Situation : Rainfed

SN	Crop & variety	Proposed Area (ha)	No. of Demons.	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation in per unit (Rs.)			No. of farmers / demonstration								
						Name of Inputs	Demo	Local	SC		ST		Other		Total		
									M	F	M	F	M	F	M	F	T
1	Low tunnel	-	20	Off season vegetable cultivation in low tunnel	Yield & Economics	Frame & Plastic	4000	1500	0	0	0	0	20	00	20	0	20

II **Crop** : Finger Millet
Thrust Area : Crop Improvement
Thematic Area : Nutritional Security
Season : Kharif
Farming Situation : Rainfed

SN	Crop & variety	Proposed Area (ha)	No. of Demons.	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)/ unit			No. of farmers / demonstration								
						Name of Inputs	Demo	Local	SC		ST		Other		Total		
									M	F	M	F	M	F	M	F	T
1	Finger Millet	10	25	Improved variety+ INM+IPM	Yield & yield attributing characteristic	Seed & Bio fertilizers	10000	7500	0	0	15	10	0	0	15	10	25

III Crop **:** Paddy
Thrust Area : Crop production
Thematic Area : Varietal Demonstration
Season : Kharif
Farming Situation : Rain-fed

Sl. No.	**Crop & variety**	**Proposed Area (ha)**	**No. of Demons.**	**Technology package for demonstration**	**Parameter (Data) in relation to technology demonstrated**	**Cost of Cultivation (Rs.)/ ha**			**No. of farmers / demonstration**									
						Name of Inputs	**Demo**	**Local**	**SC**		**ST**		**Other**		**Total**			
									M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
1	Paddy CR Dhan 320	80.0	200	Introduction of drought resistant high yielding variety	Yield & yield attributing characteristics	Paddy Seed	50000	40000			120	80	0	0	120	80	200

IV. Crop: Effect of probiotics in dairy cattle
Thrust Area Health Management
Thematic Area: Nutrition management
Season: Rabi
Farming Situation: Semi-Intensive Farming

Sl. No	Enterprises	Proposed Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)/ unit			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Dairy	50	Improvement in FCR in cow	Milk production, fat & SNF	Probiotic	84680	81030	0	0	5	0	30	15	35	15	50

V. **Crop/Tech.** : Cycle Hoe
Thrust Area : Drudgery Reduction
Thematic Area : Resource Management
Season : Rabi
Farming Situation : Rainfed

Sl. No	Crop & variety	Proposed Area (ha)	No. of demons	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)/ha			No. of farmers / demonstration								
						Name of Inputs	Demo	Local	SC		ST		Other		Total		
									M	F	M	F	M	F	M	F	T
1	Cycle hoe	10	25	Weeding through cycle hoe in cauliflower	Labour saving, yield	Hand weeder	1500	2500	0	0	10	0	15	0	25	0	25

VI. **Crop/Tech.**: Nutritional garden
Thrust Area: Nutrition Management
Thematic Area: Vegetable gardening for better nutrition
Season: Kharif/Rabi/Zaid
Farming Situation: Irrigated

Sl. No	Crop & variety	Proposed Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)/ha			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Vegetable	25 demon	Nutrition through vegetable crops	Yield	Seed & insecticides	1400	900			0	20		5	0	25	25

VII. **Crop**: Demonstration of oyster Mushroom
Thrust Area: Human Nutrition
Thematic Area: Nutritional Security
Season: Rabi
Farming Situation: Rain-fed

Sl. No	Crop & variety	Proposed Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)/unit			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Mushroom	30	Nutritional security through mushroom	Yield	Spawn, fungicide etc	1000	750			0	20	0	10	0	30	30

Cluster Frontline Demonstration (Oilseed) to be conducted Kharif 2024-25

S N	Crop & Varity	Proposed Area (ha)	No. of Dem.	Technology Package for demonstration
1	Niger	100	250	Introduction of high yielding variety: BN-3/JNS-29 Line sowing IPM&INM
2	Groundnut	60	150	Introduction of high yielding variety: K1812 line sowing IPM&INM
3	Sesame	30	75	Introduction of high yielding variety: GT-6 line sowing IPM&INM
4	Soybean	40	100	Introduction of high yielding variety: JS7926 line sowing IPM&INM
5	Mustard	200	500	Introduction of high yielding variety: BBM-1, line sowing IPM&INM
6	Linseed	30	75	Introduction of high yielding variety: IPL-220, Line sowing IPM&INM
7	Mustard (model village)	200	500	Introduction of high yielding variety: BBM-1, line sowing IPM&INM
	Total	**660**	**1650**	

6. Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training /Field Day	Cultivation Practices of Tomato	02	PF	01	Off	2	0	25	5	15	5	42	10	52
Training /Field Day	IPM practices in tomato	02	PF	01	Off	2	0	25	5	15	5	42	10	52
Training /Field Day	Package & Practices of indigenous paddy	02	PF	01	Off	2	0	25	5	15	5	42	10	52
Training /Field Day	Mechanization of Agriculture equipment's	02	PF	01	Off	2	0	25	5	15	5	42	10	52
Training /Field Day	Package & practices of Lac	02	PF	01	Off	2	0	25	5	15	5	42	10	52
Training /Field Day	Importance of nutritional garden	02	PF	01	Off	2	0	25	5	15	5	42	10	52
Total		12				12	0	150	30	90	30	252	60	312

* Repeat the above tables and information in Point no. 4 for EACH FLD being proposed.

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

Name of the Crop / Enterprise	Variety / Type	Period From 2020 to 2021	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	MTU 1010 Sahbhagi CR Dhan 320	June to November	2.8	Foundation seed	120	144000	420000	276000
Scented Paddy	Bhutku	June to November	0.4	Truthful	10.0	20000.00	50000.00	30000.00
Pigeon pea	Rajeev Lochan	June to March	0.4	Foundation Seed	5.0	25000.00	64000.00	39000.00
Green Gram	Virat	Feb to April	1.0	Certified Seed	6.0	30000.00	83400.00	53400.00
Black gram	WBU 109	July to Sept.	1.0	Certified Seed	10.0	50000.00	139000.00	89000.00
Pea	GS-10	October to February	1.2	Truthful	30.0	120000.00	360000.00	240000.00
Wheat	DBW 187	November to Feb	0.8	Foundation seed	30.0	45000.00	90000.00	45000.00
Mustard	Pusa Mustard -30	November to Feb	1.2	Certified Seed	15.0	60000.00	120000.00	60000.00
Potato	Kufri Lalit	November to Feb	0.8	Truthful	200.00	280000.00	400000.00	120000.00
Sesbania		June to October	0.4	Truthful	4.0	16000.00	24000.00	8000.00
Gram	Pusa 3043	November to Feb	0.4	Certified seed	6.0	30000.00	60000.00	30000.00
Linseed	Divya	November to Feb	0.4	Certified seed	2.0	6000.00	10000.00	4000.00
Mango	Amarapali	June to Oct	10000		10000 Nos	400000.00	600000.00	200000.00

	Mallika Langra etc		Nos					
Guava	Allahabad Safeda Surkh	June to Oct	3000 Nos		3000 Nos	60000.00	125000.00	65000.00
Litchi	Sahi China	June to Oct	2000 Nos		2000 Nos	80000.00	10000.00	20000.00
Vegetable Seedlings	Brinjal var. VNR 218, VNR 205, Swarna Shayamli, Tomato var. Arka samrat, Arka rakshak, Laxmi 5005, Cauliflower var. Girija, Madhuri, Cabbage var. Samrat, Cmpact, Chilli var. VNR 305, Arka Meghnas etc	June to Jan	50000 Nos		60000.00	45000.00	60000.00	15000.00
Other Horticultural Crops	--	June to Jan	5000 Nos		5000 Nos	50000.00	40000.00	10000.00

b) Village Seed Production Programme

Name of the Crop / Enterprise	**Variety / Type**	**Period From June 2020 to March 2021**	**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.)**
Paddy	Sahbhagi/Abhishek	June to November	20.0	50	Certified	600.0	600000.00	1200000.00	600000.00

8. 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	4	150	50	200	60	3	1	4	153	51	204
2.	Kisan Mela	3	2000	1000	3000	50	10	5	15	2010	1005	3015
3.	Kisan Gosthi	10	300	150	450	65	10	2	12	310	152	462
4.	Exhibition	7	700	500	1200	55	07	3	10	707	503	1210
5.	Farmers Seminar	2	300	200	500	70	2	1	3	302	201	503
6.	Workshop	10	600	100	700	35	0	0	0	600	100	700
7.	Group meetings	12	80	20	100	40	3	2	5	83	22	105
8.	Lectures delivered as resource persons	10	200	50	250	50	3	2	5	203	52	255
9.	Advisory Services	12	250	10	260	55	3	2	5	253	12	265
10	Scientific visit to farmers field	20	300	150	450	25	0	0	0	300	150	450
11	Farmers visit to KVK	20	15000	10000	25000	60	00	00	00	15000	10000	25000
12	Diagnostic visits	05	75	25	100	60	02	00	02	77	25	102
13	Exposure visits	5	1500	1000	2500	50	10	0	0	1510	1000	2510
14	Ex-trainees Sammelan	0	25	15	40	30	2	1	3	27	16	43
15	Soil health Camp	2	200	25	225	70	00	00	00	200	25	225
16	Animal Health Camp	2	50	25	75	55	0	0	0	0	0	0
17	Celebration of important days (specify)	4	225	50	300	45	2	1	3	252	51	303
18	Sankalp Se Siddhi	1	35	25	60	40	00	00	00	35	25	60
19	Swatchta Hi Sewa	1	35	10	45	35	0	0	0	35	15	50
	Total	**130**	**22025**	**13405**	**35455**	**950**	**57**	**20**	**67**	**22057**	**13405**	**35462**

9. Revolving Fund (in Rs.)

Opening balance of 2024 (As on 31.03.2024)	Amount proposed to be invested during 2024-2025	Expected Return
737884	350000	550000

Expected fund from other sources and its proposed utilization

S. N.	Name of Project	Source	Amount to be received (Rs. in lakh)
1	Natural Farming	ICAR-ATARI, Patna	6,00,000.00
2	ARYA	ICAR- ATARI, Patna	4,50,000.00
3	Augmenting mustard production in tribal areas	ICAR-DRMR, Bharatpur	6,00000
4	Empowering tribal Communities with Climate Resilient Technologies: A Pathway to Sustainable Development in tribal areas" under TSP	ASPEE Foundation	5,00000
5	Kisan Mela	NABARD	300000.00
6	Kisan Mela	ATMA	100000.00
7	Sponsored training	ATMA & others agency	500000.00

10. On-farm trials to be conducted

On Farm Trial Agronomy- 1

Thematic area: Crop Management

Problem definition/Name of OFT: Imbalanced use of Urea as a source of nitrogen affects the crop yield as well as soil health. Further, increasing price of urea increases the total cost of production also.

1.	**Title of On farm Trial**	Assessment of efficacy of Nitrogen use efficiency in rice
2.	**Problem diagnosed**	Excessive use of chemical fertilizer and Spiraling price of urea leads to increase in cost of cultivation
3.	**Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)**	FP : 68:58:15::N:P:K kg/ha TO 1: 50% of RDN (80 kg/ha) & 100% PK (40:30 kg/ha) + Nano urea @ 4ml/lit. water (Single spray at flowering stage) TO 2: 50% of RDN(80kg/ha) & 100%PK (40:30kg/ha) + 2 sprays of Nano Urea at (25 to 30 days) and (60 to 65 Days) @4ml/ltr water
4.	**Source of Technology (ICAR/ AICRP/SAU/other, please specify)**	ICAR-IARI Jharkhand, TNAU Tamil Nadu, Assam Agriculture University Jorhat and ICAR-IISR Kozhikode Kerala
5.	**Cropping system and thematic area**	Paddy- fallow/ Gram/Mustard Integrated Nutrients Management Irrigated crop production and management
6.	**Source of Irrigation**	Rain fed Condition
7.	**Crop and Variety**	Paddy, Variety: MTU-1010
8.	**Soil data before and after**	pH, OC % and N,P,K
9.	**Observation to the Record economics data**	No. of trials, Days to maturity, Yield (q/ha), Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net return (Rs./ha), B:C ratio
10	**Performance of the Technology with Performance indicators**	Plant height in cm, Number of total tiller M^{-2}, Number of grains ear head $^{-1}$, Dry matter accumulation (g plant^{-1}), Ear length (cm), Test weight(g) , Grain yield (q ha^{-1}), Straw yield (q ha^{-1}), Biological yield (q ha^{-1})
11.	**No. Of treatment**	3
12.	**No. Of replication**	10
13.	**Total area**	1 ha

Agronomy OFT 2

Thematic area: Crop Management

1.	**Title of On farm Trial**	Assessment of different microbial sources in Mustard
2.	**Problem diagnosed**	Imbalanced Use of Fertilizers Low yield due to flower dropping & Imbalanced nutrient application
3.	**Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)**	FP – 60:46:20::N:P:K Kg/ha TO 1: FP + NPK Liquid Consortia @500ml/50 kg FYM/ha and foliar application of consortia @ 5-10 ml/ litre water at pre-flowering stage TO 2: FP + seed treatment with Beejamrit + Four time foliar application of Jeevamrit) @ 100ml/litre water (200 litre/ acre for 1 time)
4.	**Cropping system and thematic area**	Paddy- gram/mustard Integrated nutrients management, irrigated crop production and management
5.	**Source of Technology (ICAR/ AICRP/SAU/other, please specify)**	RKMVERI Ranchi, and TNAU Tamil Nadu
6.	**Source of Irrigation**	Irrigated condition
7.	**Crop and Variety**	Mustard, variety: pusa mustard 30/birsa bhaba sarso-1
8.	**Soil data before and after**	pH, OC % and N, P, K
9.	**Observation to the Record economics data**	No. Of trials, Days to maturity, Yield (q/ha), Cost of cultivation (Rs./ha), Gross return (Rs./ha), Net return (Rs./ha), B:C ratio
10	**Performance of the Technology with Performance indicators**	Plant height in cm, Number of branch/plant, Number of siliqua /plant, Dry matter accumulation (gm/plant), No. Of grain/siliqua, 1000 grain wt in gram, Grain yield q/ha, Stover yield q/ha, Biological yield (q ha^{-1})
11.	**No. of treatment**	3
12.	**No. of replication**	10
13.	**Total area**	1 ha

Plant Protection OFT 3

Crop	Pigeon pea	
Season	Kharif	
Problem	Yield loss in pigeon pea due to infestation of pod borer (*Helicoverpa armigera)* and pod fly (*Melanagromyza obtusa)* 30-60% yield.	
Main cause	High incidence of pod borer and pod fly	
Title of OFT	Assessment	
Farming situation	Soil type Land type Irrigation type Season Previous crop	Acidic (pH - 5.2 to 5.9) Plateau type Unirrigated (Rainfed) Kharif Cucurbitaceous vegetables
Thematic area	Pest management	
Treatment details		
Farmer practice	T 1 – Spray of chlorpyriphos 50 EC.	
Technology option selected for assessment	T 2 – Application of chlorantraniliprole 18.5 SC @ 150 ml /ha at pod formation stage. T 3 – Two spray 1st spray Indoxacarb 14.5 SC @ 250 ml/hat 50% flowering and 2nd spray Imidacloprid 17.8 SL @ 400 ml/ha 15 days after 1st spray.	
Source of technology	BAU Sabour	
No. of trials	10	
Details of critical input	Seed and Pesticides	
Cost of individual critical input	Seed – Rs. 500 Pesticide – Rs. 500	
Total cost of critical input	Rs. 1000 per farmer	

Plant Protection OFT 4

Crop	Rice	
Season	Kharif	
Problem	Low yield of Rice	
Main cause	Yield loss in paddy is up to 70% in several infestation due to brown plant hopper (*Nilaparvata lugens*)	
Title of OFT	Management of Brown plant hopper (*Nilaparvata lugens*) in paddy.	
Farming situation	Soil type Land type Irrigation type Season Previous crop	Acidic (pH - 5.2 to 5.9) Plateau type Rainfed Kharif Fallow
Thematic area	Integrated Pest Management	
Treatment details		
Farmer practice	T 1: Imidacloprid 17.8 SL (100 ml/ha)/ Thiamethoxam 25 WG (100g/ha)	
Technology options	T 2: 1st Application with Azadirachtin (1500 ppm, 2.5 ml/lit) at 3-5 insect/hill followed by 2nd application with Thiamethoxam 25 WG, (100 g/ha) at an interval of 10 days. T 3: 1st and 2nd application with Buprofezin 25 EC (800 ml/ha) at an interval of 10 days.	
Source of technology	DPPQS, Faridabad	
No. of trials	10	
Details of critical input	Pesticide	
Cost of individual critical input	Pesticide – Rs. 1000	
Total cost of critical input	Rs. 10,000.00 per farmer	

Horticulture OFT 5

Crop	Litchi
Season	Late Kharif (First Week of September)
Problem	Alternate bearing tendency of litchi cv. China (negligible yield in off year)
Main cause	Occurrence of late vegetative flushing in autumn or winter, with insufficient degree of dormancy
Title of OFT	Assessment and promotion of hydroponic based production system of leafy vegetables (Palak & coriander)
Farming situation	Soil type – Acidic (pH – 5.2 to 5.9) Land type – Plateau Irrigation type – Irrigated (through well) Season – Late Kharif Previous crop – Litchi
Thematic area	Crop regulation
Farmer practice	T 1 – No management practice has been adopted by farmer
Technology option selected for assessment	T 2 – Girdling of 2 mm width in 50 per cent of primary branches T 3 – Girdling of 4 mm width in 50 per cent of primary branches
Source of technology	ICAR National Research Centre on Litchi, Muzaffarpur, Bihar
No. of trial	8
Detail of critical input	Girdling Knife
Cost of individual input	Rs. 500
Total cost of critical input	Rs. 4000
Performance indicator to be recorded	• Percent flowered shoot, Average Fruit Weight (g), Days taken for healing • Average yield per plant (kg), Cost of cultivation, Gross return • Net return, B:C ratio

Horticulture OFT 6

Crop	Leafy vegetable (Palak & Coriander)
Season	Rabi
Problem	No sustainable system suitable for small households residing in peri-urban areas for ensuring availability of fresh green & chemical free leafy vegetables in Ranchi district.
Main cause	No availability of cultivable open space in small households of peri-urban areas
Title of OFT	Assessment and promotion of hydroponic based production system of leafy vegetables (Palak & coriander)
Farming situation	Soil type – Acidic (pH – 5.2 to 5.9) Land type – Plateau Irrigation type – Irrigated Season – Rabi
Thematic area	Roof top farming
Farmer practice	T1 – Use of waste containers/ pots for vegetable growing
Technology option selected for assessment	T2 – 3-4 layer vertical farming unit T3 – Use of grow bags with soil less media for vegetable growing
Source of technology	IARI, New Delhi
No. of trial	8
Detail of critical input	Vertical Farming Unit with overhead tank and irrigation motor, Grow Bags, Coco peat, Vermi Compost, Vegetable Seed
Total cost of critical input	Rs. 20000 per unit Rs. 20000x 8 = Rs. 1,60,000 (For 8 units)
Performance indicator to be recorded	**1.** Yield per unit **2.** Cost of cultivation **3.** Gross return **4.** Net return **5.** B:C ratio **6.** Perception of beneficiary

Plant Breeding OFT 7

Title:	**Evaluation of Onion varieties for Kharif season**
Crop	Onion
Season	Kharif
Problem	Low marketable yield in Kharif
Main cause	High incidence of diseases
Title of OFT	Assessment
Farming situation	Red laterite soil, Upland, irrigated and previous cropsummer vegetables
Thematic area	Vegetable production
Farmer practice	T 1: Arka Niketan
Technology option selected for assessment	T 2: Agrifound Dark red T 3: Bheema Dark Red
Source of technology	ICAR- Indian Institute of Horticultural Research, Bengaluru, Karnataka ICAR- Directorate of Onion and Garlic Research, Pune, Maharashtra National Horticultural Research and Development Foundation, Nashik, Maharashtra
No of trials	10 (0.6 ha)
Detail of critical input	Onion Seed
Cost of individual critical input	Onion Seed - Rs. 15000
Total cost of critical input	Rs. 15000
Performance indicator to be recorded	(i) Plant population at 15, 45, 60 DAT and at harvesting (ii) Bulb diameter (cm) (iii) 10 Bulb weight (g) (iv) Yield per ha **(v)** Storage life: 15, 30, 45 and 60 days after harvesting (rotting and PLW)

Plant Breeding OFT 8

Title	Assessment of climate resilient varieties in rice suitable for medium land of Ranchi district.
Crop	Rice
Season	Kharif
Problem	Yield loss in paddy
Main cause	Yield loss in paddy crop due to increased water stress, reduction in number of rainy days and extreme temperature at critical growth stages.
Title of OFT	Assessment
Farming situation	Red laterite soil, medium land, rain fed farming and previous cropwas vegetables
Thematic area	Crop production
Farmer practice	T1: Cultivation of drought tolerant variety IR 64 (drt)
Technology options selected for assessment	T2: Cultivation of drought tolerant variety CR Dhan 320 T3: Cultivation of climate resilient variety CR Dhan214
Source of technology	ICAR- NRRI- Central Rainfed Upland Rice Research Station, Hazaribagh, Jharkhand
No of trials	7
Detail of critical inputs	Seed, liquid fertilizers i.e. Nano urea, Nano DAP and Sagarika
Cost of individual critical input	Seed – 4668 Liquid fertilizers - 5832
Total cost of critical input	Rs. 10500
Performance indicator to be recorded	(i) Technical indicator (No. of tillers, Effective tillers, grains per panicle, Yield (Q/ha) (ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) (iii) Farmer perception

Animal Husbandry OFT- 9

Title: Assessment of Concentrate ration feeding in pregnant does (Steaming Up)

1	Crop/ Animal	Goat
2	Season	Rabi
3	Problem	Lower birth weight of kids
4	Main cause	Nutrients deficiency
5	Title of OFT	Assessment of Concentrate ration feeding in pregnant does (Steaming Up)
6	Farming situation	Semi intensive farming system
7	Thematic area	Nutritional management
8	Farmer practice	Only Free- range grazing/browsing system
9	Technology option selected for assessment	TO1- Farmers practice plus supplementation of 150 gm concentrate/day from 60 days before expected day of kidding TO2- Farmers practice plus supplementation of 250 gm concentrate/day from 60 days before expected day of kidding
10	Source of tech.	ICAR-IVRI, Izatnagar, Bareilly, UP
11	No. of trials	18
12	Detail of critical inputs	Concentrate feed mixture
13	Cost of individual critical inputs	Rs. 500 and Rs.800 approx in TO1 and TO2 respectively
14	Total cost of critical inputs	Rs.8000.00 approx
15	Performance indicator to be recorded	Birth weight of kids Growth and production performance of kids B:C ratio and farmer perception

Animal Husbandry OFT- 10

Assessment of Karanj oil to control external parasites in Goats.

1	Crop/ Animal	cattle
2	Season	Kharif/Rabi
3	Problem	Transmission of diseases, poor growth rate, irritation etc.
4	Main cause	Infestation of lice, tick and flies
5	Title of OFT	Assessment of Karanj oil to control external parasites in Goats.
6	Farming situation	Semi intensive farming system
7	Thematic area	Disease management
8	Farmer practice	Using different types of ITKs and medicines advised by local rural practitioner or by medical stores.
9	Technology option selected for assessment	F.P : Use of Karanj oil/ Neem oil TO1: Amitraj 10ml/ lit of water, 2 alternative days. TO2: Karanj oil 100ml + sulpher 10g + camphore 5g , 3 alternative days
10	Source of tech.	BAU, Ranchi (Dr. Pallav Shekhar, Dr. Ravindra Kumar)
11	No. of trials	18
12	Detail of critical inputs	Amitraj- 100ml, Karanj oil- 3lit, sulpher-250g, camphore-150g.
13	Cost of individual critical inputs	Rs.70-150/ animal
14	Total cost of critical inputs	Rs.3500/- approx
15	Performance indicator to be recorded	Duration of treatment (days), Time taken for full recovery (days), B:C ratio

On-Farm Trial- 11(HOME SCIENCE)

1.	**Title of the form trial:**	Formulation of Jackfruit Candy
2.	**Thematic area:**	• Value addition • Nutritional evaluation
3.	**Problem diagnoses:**	As per the National Family Health Survey-5 data for Jharkhand, 1036 women and 1370 men aged 15-49 per 10,000 have diabetes, Constipation is one of the most frequent gastrointestinal complaints.18 to 25% of residents are suffering from cardiovascular disease in Jharkhand. Research shows that eating jackfruit can potentially reduce the risk of heart diseases. As it contain lignins, lignans, flavones, iso-flavones and saponins which have the properties of anti-ageing and anti-cancer. The combination of potassium, fibre and antioxidants can benefit heart health. A convenient way to improve the nutritional level by including jackfruit in the diet. Jackfruit is under-exploited to meet growing domestic and commercial needs Developed fruit-based hard candy can show a better acceptability, storage stability for more than 10 months, rich mineral composition, and consumer safety.
4.	**Production system**	• Value addition
5.	**Existing farmers practice**	Consumption of jackfruit in the form of vegetable and ripened fruit
6.	**Objective:**	Formulation of Jackfruit Candy
7.	**Technology for testing:**	FP: Consumption of jackfruit in the form of vegetable and ripened fruit TO1: Development of Jackfruit based product with the sweet flavor. TO2: Development of Jackfruit based product with spicy flavor.
8.	**Source of technology**	CIPHET, Ludhiana AAU, Assam
9.	**Objective:**	• To formulate Nutrition rich jackfruit based product. • To evaluate the organoleptic property of the formulated product. • To determine the nutritional quality of formulated product. • Technology transfer to local people through training programmes.
10	**Performance of technology with performance indicators**	• Organoleptic evaluation of formulated product on a nine-point hedonic scale - ➢ Appearance ➢ Colour ➢ Flavour ➢ Taste ➢ Texture ➢ Consistency ➢ And overall acceptability • Adaptation of formulated product

On-Farm Trial- 12 (HOME SCIENCE)

1.	**Title of the farm trial:**	**Development of millets bar for school going children**
2.	**Thematic area:**	Value addition
3.	**Problem diagnosed:**	Lack of access to nutritious and sufficient food is a major reason for malnourishment in the district. A convenient way to improve the nutritional level, and better prevention and management of malnourishment by including millets in the diet as these are very rich in protein, vitamins, and minerals which helps in to make food products nutrient-rich and also delicious which ultimately able to eliminate malnutrition from the target population. But Limitation of millet consumption among school going children due to unavailability of tasty millet based product.
4.	**Production system:**	Food processing
5.	**Existing farmers practice:**	Use of millet in traditional food preparation like dhuska, letoo
6.	**Objective:**	Development of millet bar
7.	**Technology for testing:**	FP: Use of millet in traditional food preparation like dhuska, letoo T01: Development of Ragi bar T02: Development of multi-millet bar
8.	**Source of technology:**	Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, Uttar Pradesh Tamil Nadu Agricultural University Coimbatore, Tamil Nadu
9.	**Objective:**	➢ To formulate nutrition rich millet-based product ➢ To evaluate the organoleptic property of the formulated product ➢ To determine the nutritional quality of formulated product ➢ Technology transfer to local people through training programmes
10.	**Performance of technology with performance indicators:**	Organoleptic evaluation of formulated product on a seven-point hedonic scale ➢ **Appearance, Colour, Flavour, Taste, Texture, Consistency** ➢ **And overall acceptability** • Adaptation of formulated product

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

S.N	Name of Project	Financial Support
1	Empowering tribal Communities with Climate Resilient Technologies: A Pathway to Sustainable Development in tribal areas" under TSP	ICAR-IIAB, Ranchi
2	ARYA (Attracting and retaining youth in Agriculture)	ICAR- ATARI, Patna
4	Augmenting mustard production in tribal areas	ICAR-DRMR, Bharatpur
6	Establishment of bee board project	NBB, New Delhi
7	Promotion of fodder crop	Regional fodder station, Kalyani, W.B
8	Livelihood programme on bamboo	Bamboo mission
9	Natural Farming	NABARD
10	Effect of nano plus on rice mustard cropping system	IFFCO

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

Two Success stories would be developed with the title

13. Scientific Advisory Committee

Date of SAC meeting held during 2023-2024	Proposed date during 2024-2025
23/12/2023	September 2024

14. 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	1000	0	0	300	50	500	150	800	200	1000	10	1000
Total	1000	0	0	300	50	500	150	800	200	1000	10	1000

15. Fund requirement and expenditure

Heads	Expenditure (last year) (Rs.) up to 31.12.2022	Expected fund requirement (Rs.) (2023-24)
Pay and allowances	20586591	2,29,80000
HRD	11361	25,000
TA	102496	1,00,000
Contingency	1390942	25,85,000
TSP	464254	12,00,000
Equipment & Furniture	-	2,00,000
Total	**2,25,55644**	**2,70,90000**

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