ACTION PLAN
2024

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3. Capacity building:

Thrust area: Capacity development of farmers and extension personnel to update their knowledge and skills on modern agricultural technologies (Thrust area 5)

(a) Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Conservation agriculture	Sustainable crop production through conservation agriculture in jute based cropping system	1	3	Off	January 3rd week, 2024	20	10	0	0	0	0	20	10	30
Production technology	Improved production technology of jute in jute based cropping system	1	3	Off	March 1st week, 2024	20	10	0	0	0	0	20	10	30
Nutrient management	Role of plant nutrients and deficiency symptoms in horticultural crops in jute based cropping system	1	3	On	Jan, 2nd week 2024	15	15	0	0	0	0	15	15	30
Production and use of organic inputs	Need for composting and different types of compost preparation	1	3	Off	February 1st week, 2024	20	10	0	0	0	0	20	10	30
Micro nutrient deficiency in crops	Role of macro and micronutrient in soil and crop health in jute based cropping system	1	3	Off	February 2nd week	30	0	0	0	0	0	30	0	30

Production technology	Improved production technology of jute and crop protection therein in rainwater harvesting based integrated farming system of jute **Topics:** i. Improved production technology of jute ii. Bee keeping iii. Boons of rainwater harvesting in on farm retting tank based IFS on jute iv. Disease management of crops in IFS **(Resource persons: SMA Rahman, D. Ghorai, S. Garai, SS Kundu)**	1	3	Off	March 1st week, 2024	20	10	0	0	0	0	20	10	30
Production technology	Improved production technology of jute and crop protection therein in rainwater harvesting based integrated farming system of jute **Topics:** i. Improved production technology of jute ii. Growing of fruit plants and vegetables in IFS iii. Micro irrigation technology in jute iv. Pest and disease management of jute and other crops in IFS v. Culture of Pungus in retting pond. vi. Rearing of poultry birds in IFS vii. Bee keeping **(Resource persons: SMA Rahman, D. Ghorai, S. Sarkar,**	2	5	Off	August 2nd Week, September 2nd week, 2024	40	20	0	0	0	0	40	20	60

	S. Garai, SS Kundu, S. Bhadra, M. Lavanya)														
Post harvest management	Awareness camp on Improved retting methodology of jute	2	1	Off	August 2nd and 3rd week, 2024	40	20	0	0	0	0	40	20	60
Resource Conservation Technologies	Aman rice cultivation following SRI principles and crop protection therein in jute-rice cropping system **Topics:** i. Seed treatment of Rice ii. Rice production through SRI iii. IPM in aman rice **(Resource persons: D. Ghorai, S. Garai, SS Kundu)**	1	3	Off	May 3rd week	20	10	0	0	0	0	20	10	30
Resource Conservation Technologies	Boro rice cultivation following SRI principles and crop protection therein in jute-rice cropping system **Topics:** i. Seed treatment of Rice ii. Rice production through SRI iii. Fertilizer management on SRI iv. IPM in boro rice v. Post harvest and value addition of rice **(Resource persons: D. Ghorai, S. Garai, SS Kundu, J. Bohra)**	1	5	Off	December 3rd week, 2024	20	10	0	0	0	0	20	10	30
Conservation agriculture	Sustainable crop production through conservation agriculture in jute based cropping system **(Resource persons: D. Ghorai)**	1	3	Off	January 3rd week, 2024	20	10	0	0	0	0	20	10	30
Conservation agriculture	Sustainable crop production through conservation agriculture in jute based cropping system **Topics:** i. Principles and practices of CA	1	3	Off	July 3rd week, 2024	20	10	0	0	0	0	20	10	30

	ii.Insect, disease and Weed management in CA **(Resource persons: D. Ghorai, S. Garai, SS Kundu)**														
Production technology	Organic farming and natural farming and production of different composts in jute based cropping system **(Resource persons: D. Ghorai)**	2	3	Off	July 2nd week, September 2nd week 2024	50	10	0	0	0	0	50	10	60
Crop management	Benefits of INM, IPM and IDM in field crops in jute based cropping system **Topics:** i. INM in field crops of jute, rice, pulses and oilseeds ii.IDM/IPM in field crops of jute, rice, pulses and oilseeds **(Resource persons: SMA Rahman, D. Ghorai, S. Garai, SS Kundu)**	1	5	Off	November 2nd week, 2024	20	10	0	0	0	0	20	10	30
Production and Management technology	Improved production technology of kharif onion in jute based cropping system **(Resource persons: S. Sarkar)**	1	3	Off	April, 2nd week 2024	15	15	0	0	0	0	15	15	30
Water management	Micro irrigation technology in jute based cropping system **(Resource persons: S. Sarkar)**	1	3	On	May, 1st week 2024	15	15	0	0	0	0	15	15	30
Plant propagation techniques	Plant propagation techniques of sub-tropical fruit crops **(Resource persons: S. Sarkar)**	1	3	On	June, 4th week 2024	15	15	0	0	0	0	15	15	30
Nursery management	Nursery management of vegetable crops in jute based cropping system **(Resource persons: S. Sarkar)**	1	3	On	Spt, 2nd week 2024	15	15	0	0	0	0	15	15	30
Vegetable cultivation	Cultivation techniques of solanaceous vegetables in jute based cropping system	1	5	Off	Oct, 4th week 2024	15	15	0	0	0	0	15	15	30

	Topics: i. Improved production technologies of solanaceous vegetables ii. Insect management in solanaceous crops iii. Disease management in solanaceous crops **(Resource persons: S. Sarkar, S. Garai, SS Kundu)**													
Production and Management technology	Improved production technology of potato in jute based cropping system **Topics:** i. Nutrient management in potato ii. Insect and disease management of potato **(Resource persons: S. Sarkar, D. Ghorai, S. Garai, SS Kundu)**	1	3	Off	Oct, 3rd week 2024	15	15	0	0	0	0	15	15	30
Seed production	Seed production of field and Vegetable crops in jute based cropping system **Topics:** i. Seed production of paddy ii. Seed production of oilseeds and pulses iii. Seed production of solanaceous and Cucurbit crops iv. Insect pest management of cucurbits **(Resource persons: S. Sarkar, D. Ghorai, S. Gari, SS Kundu)**	1	5	Off	Dec, 3rd week 2024	15	15	0	0	0	0	15	15	30
Micro nutrient deficiency in crops	Role of macro and micronutrient and deficiency symptoms in field and horticultural crop in jute-based cropping system **Topics:**	2	3	Off	July 2nd week, September 3rd week, 2024	60	0	0	0	0	0	60	0	60

	i. Need for soil testing and soil test-based fertilizer application ii. Role of plant nutrients in crop production **(Resource persons: D. Ghorai, S. Sarkar)**													
Agril. Extension: Farmers Producer Organizations (FPOs) and Self Help Group (SHGs)	Empowering Farmers through Farmers Producer Organizations (FPOs) and Self Help Group (SHGs) Topics: i. To provide an understanding of the concept and benefits of FPOs and Self Help Group (SHGs) ii. To Train farmers on the operational aspects of forming and running FPOs and Self Help Group (SHGs). To enhance farmers knowledge of government schemes and financial support available for FPOs and Self Help Group (SHGs).	1	3	OFF	September 2nd week	15	15					15	15	30
National Livestock Mission and rearing of animals under the scheme	Empowering Rural farmers through the National Livestock Mission (NLM) Topics: i. To raise awareness about the NLM scheme and its components ii. To educate farmers on the application process and eligibility criteria. iii. To inform farmers about the financial and technical support available under NLM	1	5	Off	October 2nd week	20	10					20	10	30

	Knowledge and basic principles about rearing of animals under NLM Scheme													
Mechanization of Farm through Custom Hiring Centers	Enhancing Efficiency and Sustainability through Custom Hiring Centers i. Equip farmers with the technical knowledge and proficiency of improved Farm Implements ii. Technology Integration in CHCs: Digital Tools and Precision Farming iii. Government Schemes and Support for CHCs and improved farm implements iv. Demonstration of improved farm implements	1	5	ON	November 2nd week	15	15					15	15	30
Fisheries: Pond Management in aquaculture	Different pond management for fish production i. Nursery pond preparation and management ii. Rearing pond preparation and management Grow out pond preparation and Management	1	3	Off	1stweek of September,2024	20	10	0	0	0	0	20	10	30
Integrated Farming System	Integrated fish farming for livelihood improvement Integrated cattle-cum-fish farming in backyard pond i. Integrated Duck-cum-fish farming in backyard pond	1	5	On	1st week of october,2024	20	10	0	0	0	0	20	10	30

	ii. Integrated Goat-cum-fish farming in the backyard pond iii. Integrated poultry-cum-fish farming in the backyard pond iv. Integrated horticulture-cum-fish farming Integrated paddy-cum -fish farming														
Feed Management in Aquaculture	Feed management for IMC for better productivity i. Different feed ingredients and Types of fish feed ii. Fish farming based on feeding and Calculation of feed ration Selection of ingredients and Feed formulation in aquaculture	1	3	Off	1st week of November,2024	20	10	0	0	0	0	20	10	30
Fish Health Management	Fish disease and Management in aquaculture i. Causes of fish Disease and Good aquaculture Practices (GAP) ii. Types of fish disease Treatment of fish disease	1	3	Off	1st week of December,2024	20	10	0	0	0	0	20	10	30
Animal Science: Dairy Management	Care and management of pregnant cattle and newborn calf • Care and management of cattle during dry period	1	5	Off	August 3rd week	15	15					15	15	30

	• Signs of approaching parturition • Management immediately after calving Care and management of newborn calf													
Goat Farming	Care and Management of different categories of goat • Importance of rearing goats • Different production systems for rearing goats • Breeding management • Care and management of newborn kids Care and management of Buck and Doe	1	5	On	September 2nd week	15	15					15	15	30
Poultry management	Backyard poultry management	1	3	On	October 1st week	10	20					10	20	30
Feed management	Quality improvement of Poor-quality roughages	1	3	Off	November 2nd week	20	10					20	10	30
Production of quality animal products	Value Addition of Livestock Products	1	3	Off	December 2nd week	10	20					10	20	30
Home Science: Value Addition	Preparation of Guava Products Topics: iii. To provide understanding of the importance of value-added products iv. To Train farm women how to prepare Guava	1	5	On	3rd week of September	0	20					0	20	20

	products like guava squash, jam and jelly. Educate farm women regarding packaging and optimized storage conditions													
TOTAL		**39**	**1-5**			**720**	**440**	**0**	**0**	**0**	**0**	**720**	**440**	**1160**

(b) Rural youths

Thematic area	**Title of Training**	**No.**	**Duration**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Mushroom Production	Improved Production Technology of Oyster mushroom	1	3	On	16.01.2024-18.01.2024	20	10	0	0	0	0	20	10	30
Bee-keeping	Bee-keeping for better pollination and alternative livelihood	2	3	On	(29.01.2024-31.01.2024) and (06.02.2024-08.02.2024)	36	24	0	0	0	0	36	**24**	60
Production and use of organic inputs	Production and use of organic inputs in Integrated Farming System **Topics:** i. Vermicompost production at farmer's level ii. Production of biopesticides and its role in organic farming and zero budget natural farming **(Resource persons: S. Sarkar, D. Ghorai)**	1	3	On	August 1st week, 2024	10	20	0	0	0	0	10	20	30
Alternate livelihood	Alternate livelihood means of rural youth for income generation **Topics:** i. Improved Production Technology of Oyster mushroom ii. Bee-keeping for better pollination and alternative livelihood	2	3	On	November 2nd week, December 1st week, 2024	40	20	0	0	0	0	40	20	60

	(Resource persons: SMA Rahman, S. Garai)													
Alternate livelihood	Bee-keeping for better pollination and alternative livelihood **(Resource persons: SMA Rahman)**	2	3	On	September 2nd week, November 3rd week, 2024	40	20	0	0	0	0	40	20	60
Others	Agromet Advisories in mitigating drought effects on crop-weather-pest interaction and Role of ICT in modern agriculture **(Resource persons: SMA Rahman, Sk. G. Rasul)**	1	3	On	February, 2024	20	10	0	0	0	0	20	10	30
Marketing of Agriculture Products	Marketing of Agriculture products through digital marketing and value addition i. Basics of Marketing of agriculture produce in India ii. Different online and offline marketing platforms and Knowledge on various online and offline sales channels. iii. Value addition of major agriculture products of the area iv. Branding and packaging of products attractively Financial management and legal requirements for selling products	1	5	On	November 4th week	20	10	0	0	0	0	20	10	30
TOTAL		**10**	**3-5**			**186**	**114**	**0**	**0**	**0**	**0**	**186**	**114**	**300**

(c) Extension functionaries

Thrust area/ Thematic area	**Title of Training**	**No.**	**Duration**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Others	Climate change and effect on agriculture and adaptation through integrated farming system approach	2	3	Off	December 1st week 2024	40	20	0	0	0	0	40	20	60

	(Resource persons: SMA Rahman, D. Ghorai)														
TOTAL		2	3			**40**	**20**	**0**	**0**	**0**	**0**	**40**	**20**	**60**	

(d) Vocational training

Thrust area/ Thematic area	**Title of Training**	**No.**	**Duration**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Women empowerment	Making of jute handicrafts	6	21-30	On	2nd week of January, 1st week of May and 2th week of July, 1st Week of August, 3rd week of September, 1st Week of December, 2024	0	150	0	0	0	0	0	150	150
Women empowerment	Making of jute handicrafts	1	7	On	2nd week February, 2024	0	20	0	0	0	0	0	20	20
Women empowerment	Preparation of jute based- home decorative crafts	1	10	On	1st week of September	0	20	0	0	0	0	0	20	20
Skill Development	Training in Kantha stitch	1	7	On	3st week of November	0	20	0	0	0	0	0	20	20
Skill Development	Preparation of jute based jewelry products	1	7	On	2nd week of December	0	20	0	0	0	0	0	20	20
TOTAL		**10**	**7-30**			**0**	**230**	**0**	**0**	**0**	**0**	**0**	**230**	**230**

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

Farmers and Farm women

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
I. Crop Production													
Weed Management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Resource Conservation Technologies	5	0	0	0	100	50	150	0	0	0	100	50	150
Cropping Systems	1	0	0	0	20	10	30	0	0	0	20	10	30
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management	2	0	0	0	40	20	60	0	0	0	40	20	60
Fodder production													
Production of organic inputs	3	0	0	0	70	20	90	0	0	0	70	20	90
Others, (cultivation of crops)	2	0	0	0	40	20	60	0	0	0	40	20	60
TOTAL	**13**	**0**	**0**	**0**	**270**	**120**	**390**	**0**	**0**	**0**	**270**	**120**	**390**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	1	0	0	0	15	15	30	0	0	0	15	15	30
Water management	1	0	0	0	15	15	30	0	0	0	15	15	30
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables	1	0	0	0	15	15	30	0	0	0	15	15	30
Nursery raising	1	0	0	0	15	15	30	0	0	0	15	15	30
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	2	0	0	0	60	0	60	0	0	0	60	0	60
Others, if any (Cultivation of Vegetable)	2	0	0	0	30	30	60	0	0	0	30	30	60
TOTAL	**8**	**0**	**0**	**0**	**150**	**90**	**240**	**0**	**0**	**0**	**150**	**90**	**240**
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards	1	0	0	0	15	15	30	0	0	0	15	15	30
Plant propagation techniques	1	0	0	0	15	15	30	0	0	0	15	15	30
Others, if any(INM)													
TOTAL	**2**	**0**	**0**	**0**	**30**	**30**	**60**	**0**	**0**	**0**	**30**	**30**	**60**
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops	1	0	0	0	30	0	30	0	0	0	30	0	30
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL	**1**	**0**	**0**	**0**	**30**	**0**	**30**	**0**	**0**	**0**	**30**	**0**	**30**
IV. Livestock Production and Management													
Dairy Management	1	0	0	0	15	15	30	0	0	0	15	15	30
Poultry Management	1	0	0	0	10	20	30	0	0	0	10	20	30
Piggery Management													
Rabbit Management													
Disease Management													
Feed management	1	0	0	0	20	10	30	0	0	0	20	10	30
Production of quality animal products	1	0	0	0	10	20	30	0	0	0	10	20	30
Others, if any (Goat farming)	1	0	0	0	15	15	30	0	0	0	15	15	30
TOTAL	**5**	**0**	**0**	**0**	**70**	**80**	**150**	**0**	**0**	**0**	**70**	**80**	**150**
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition	1	0	0	0	0	20	20	0	0	0	0	20	20

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL	**1**	**0**	**0**	**0**	**0**	**20**	**20**	**0**	**0**	**0**	**0**	**20**	**20**
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any	1	0	0	0	15	15	30	0	0	0	15	15	30
TOTAL	**1**	**0**	**0**	**0**	**15**	**15**	**30**	**0**	**0**	**0**	**15**	**15**	**30**
VII. Plant Protection													
Integrated Pest Management	1	0	0	0	20	10	30	0	0	0	20	10	30
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any	1	0	0	0	20	10	30	0	0	0	20	10	30
TOTAL	**2**	**0**	**0**	**0**	**40**	**20**	**60**	**0**	**0**	**0**	**40**	**20**	**60**
VIII. Fisheries													
Integrated fish farming	2	0	0	0	40	20	60	0	0	0	40	20	60
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	1	0	0	0	20	10	30	0	0	0	20	10	30
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any	1	0	0	0	20	10	30	0	0	0	20	10	30
TOTAL	**4**	**0**	**0**	**0**	**80**	**40**	**120**	**0**	**0**	**0**	**80**	**40**	**120**
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs	1	0	0	0	15	15	30	0	0	0	15	15	30
Mobilization of social capital													
Entrepreneurial development of farmers/youths													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
WTO and IPR issues													
Others, if any	1	0	0	0	20	10	30	0	0	0	20	10	30
TOTAL	**2**	**0**	**0**	**0**	**35**	**25**	**60**	**0**	**0**	**0**	**35**	**25**	**60**
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	**39**	**0**	**0**	**0**	**720**	**440**	**1160**	**0**	**0**	**0**	**720**	**440**	**1160**

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	2	0	0	0	40	20	60	0	0	0	40	20	60
Bee-keeping	5	0	0	0	96	54	150	0	0	0	96	54	150
Integrated farming													
Seed production													
Production of organic inputs	1	0	0	0	10	20	30	0	0	0	10	20	30
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts	6	0	0	0	0	230	230	0	0	0	0	230	230
Enterprise development	1	0	0	0	20	10	30	0	0	0	20	10	30
Others if any (ICT application in agriculture)	1	0	0	0	20	10	30	0	0	0	20	10	30
TOTAL	**16**	**0**	**0**	**0**	**186**	**344**	**530**	**0**	**0**	**0**	**186**	**344**	**530**

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T

Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any	2	0	0	0	40	20	60	0	0	0	40	20	60
TOTAL	**2**	**0**	**0**	**0**	**40**	**20**	**60**	**0**	**0**	**0**	**40**	**20**	**60**

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

Thrust area: Productivity enhancement of field crops under jute-based cropping system through improved approach and farm mechanization (Thrust area 1)

Production of disease-free planting materials and improvement of horticultural crops (Thrust area 2)

FLD 1:

- **Crop**: Jute
- **Thematic Area**: Improved production technology
- **Season**: Pre Kharif 2024
- **Farming Situation**: Irrigated medium upland

FLD 2:

- **Crop**: Rice (Kharif)
- **Thematic Area**: Integrated crop management
- **Season**: Kharif 2024
- **Farming Situation**: Irrigated medium upland

FLD 3:

- **Crop**: Mustard
- **Thematic Area**: Nutrient management
- **Season**: Rabi 2024
- **Farming Situation**: Irrigated medium upland

FLD 4:

- **Crop**: Lentil
- **Thematic Area**: Integrated nutrient management
- **Season**: Rabi 2024
- **Farming Situation**: Irrigated medium upland

FLD 5:

- **Crop**: Sorghum
- **Thematic Area**: Crop diversification
- **Season**: Kharif 2024 and Rabi 2024-25
- **Farming Situation**: Irrigated medium upland

FLD 6

- **Crop**: Cauliflower
- **Thrust Area**: Nutrient management
- **Thematic Area**: Cultivation of vegetables
- **Season**: Rabi
- **Farming Situation**: Irrigated Medium/ upland

FLD 7

- **Crop / Enterprise:** Potato
- **Thrust Area**: Disease management
- **Thematic Area**: Cultivation of Vegetable
- **Season**: Rabi
- **Farming Situation**: Irrigated Medium/ upland

FLD 8:

- **Crop**: Oyster Mushroom
- **Thrust Area**: Augmentation of productivity
- **Thematic Area**: Improved production technology
- **Season**: November, 2024
- **Farming Situation**: Conventional method

FLD 9

- **Crop**: Brinjal
- **Thrust Area**: Augmentation of productivity
- **Thematic Area**: Integrated Pest management
- **Season**: Rabi (October 2024)
- **Farming Situation**: Irrigated medium/ upland

FLD 10

- Enterprise/Corp: Fish *(Labeo bata)*
- Thrust Area: Species diversification in pond aquaculture
- Thematic: Introduction of cultural practice of minor carp in IMC based polyculture system
- Season: Kharif, 2024
- System of rearing: Modified extensive

FLD 11

- Enterprise/Corp: IMC (Indian Major Carp)
- Thrust Area: Disease management in aquaculture
- Thematic: Disease management in IMC-based polyculture system
- Season: Rabi, 2024

FLD 12

- Enterprise/Crop: Goat Farming
- Thrust Area:
- Thematic area: Nutritional Management
- Season: Winter
- Farming situation: Extensive system of rearing (only grazing)

FLD 13

- Enterprise/Crop: Kitchen Gardening (Winter vegetables - Spinach, Broccoli, Beetroot, Cauliflower, Radish and Carrot)
- Title: Household food security by kitchen gardening and nutrition gardening
- Thrust area: Enhancing diversified vegetables intake to improve nutrient content of diet.
- Thematic area: Improved nutritional status.
- Season: Winter
- Farming situation: Irrigated medium upland

Details of FLDs:

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	Jute; JRO 204	10	Seed treatment+ Use of seed drill/cycle weeder+ 80:40:40 NPK+retting with CRIJAF SONA	Plant height, base diameter, yield	Seed	73000	78000	25	0	0	0	0	0	25	0	25

2	Rice; MTU 7029	30	16-18 day old seedling + 10'x10' spacing + chemical weeding + 80:40:40:20 NPKS	No. of tiller/hil, test weight, yield	Seed, Fertilizers	58000	57000	75	0	0	0	0	0	75	0	75
3	Mustard; JD 6/Keshari	10	Soil test based N, P, K + 30 kg S/ha+ two foliar spray of boron along with micronutrient mixture (Aquacal)	No. of pods/plant, test weight, oil content yield	Seed, Sulfur, boron	40000	39000	25	0	0	0	0	0	25	0	25
4	Lentil; IPL 316	10	Treatment of seed with rhizobium; 15:40:20 N:P:K and 30 kg S/ha; Soil application of $ZnSO_4$ @ 10 kg/ha; 2 foliar spray of boron @ pre and post flowering	No. of pods/plant, yield	Seed, sulfur, micronutrient	38000	37000	25	0	0	0	0	0	25	0	25
5	Sorghum	10	Seed treatment+ line sowing @ 30 cm x 10 cm+ 2 tonnes FYM and 80:40:40 NPK+2 foliar spray of micronutrient mixture	Yield	Seed, micronutrient mixture	40000	NO local check	25	0	0	0	0	0	25	0	25
6	Cauliflower	2	Sulphur & boron application	Yield, B:C ratio	Sulphur & boron	110000	195000	10	5					10	5	15
7	Potato	4	Seed treatment with *Trichoderma viridae* and foliar application *Cymoxanil + mancozeb* (two spray) and *Dimethomorph 50% WP* (single spray)	Late blight disease incidence, Yield, B:C ratio	Plant protection chemical	165000	145000	10	20					10	20	30
8	Mushroom Var. Oyster	10 nos. units (10 beneficiaries)	**Treatment of paddy straw:** Machine cut, dry paddy straw @10 kgs are to be dipped in 100 litres of clean water, mixed with 120 ml formaldehyde + 10 gm Carbendazim + 30 gm Calcium hydroxide for 10-12 hours.	Yield, B: C ratio	Mushroom spawn, machine cut paddy straw, poly packets, chemicals	4020	3425	5	5	0	0	0	0	5	5	10
9	Brinjal Var. Local	1 ha	Integrated pest management on *Leucinodes orbonalis*	Yield, B:C ratio	Pheromone trap 10/ acre	55000	53000	15	5					15	5	20

			1. Install pheromone traps 10/acre for mass trapping at 10 m distance from 20 DAT, the pheromone septa should be changed at regular interval. 2. Spray azadirachtin 0.03% (300 ppm) neem oil based WSP @ 1000-2000 ml in 200-400 l of water/acre.		for mass trapping and spray azadirachtin 0.03% neem oil											
10	Fish *(Labeo bata)*	2 Ha	*Popularization of the* cultural practice of minor carp, *Labeo bata,* in the multi species culture practice	Yield, B:C ratio	Seed	50000	40000	10						10	-	10
11	IMC (Indian Major Carp)	2 Ha	Demonstration of CIFAX as a control measure of Epizootic ulcerative syndrome (EUS) in IMC	Survivability rate or Mortality rate	CIFAX	40000	30000	10						10	-	10
12	Goat Farming	50 unit (10 farmers 5 goats each)	Demonstration of mineralized salt Blocks licks in goats Lick accessible BID for 120 days	Body weight, kid mortality, twinning percentage, B:C Ratio	Mineral salt licks	20000		5	5					5	5	10
13	Kitchen Gardening (Winter vegetable)	10 unit (100 m^2 per unit)	Kitchen Gardening (Improved Seed of Spinach, Broccoli, Beetroot, Cauliflower, Radish and Carrot)	Yield, B:C Ratio	Vegetable seeds	2000	5000	5	5					5	5	10
TOTAL		**151**						**245**	**45**	**0**	**0**	**0**	**0**	**245**	**45**	**290**

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	Improved production technology of Potato	1	PF	1 day	Off	10	0	0	0	15	0	25	0	25
	Improved production technology of Oyster mushroom	1	RY	1	Off	5	5	0	0	0	0	5	5	10
Field visits	Field visit	20	PF	Half day each	Off	190	65					190	65	255
		10	PF	Half day each	Off	30	50	0	0	50	40	80	90	170
Field day	Feld day on all crops	5	PF	Half day each	Off	140	30					140	30	170
	Field day on Cauliflower and potato	2	PF	2 days	Off	15	10	0	0	45	0	60	10	70
	Oyster mushroom	1	RY	1	Off	10	10	0	0	0	0	10	10	20

5. a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)
Productivity enhancement of field crops under jute based cropping system through improved approach and farm mechanization (Thrust area 1)

Name of the Crop / Enterprise	Variety / Type	Period From…… to ……..	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Boro Rice	Shatabdi	Jan –May , 2024	3	Foundation seed	210	400000	1000000	600000
	Sukumar	Jan –May , 2024	1	Foundation seed	55	100000	250000	150000
Kharif rice	CR Dhan 800	Jun 2024- December 2024	2	Foundation seed	110	350000	750000	400000
Kharif rice	MTU 7029	Jun 2024- December 2024	2	Foundation seed	105	350000	750000	400000
Turmeric Seeds	Suguna	April to Feb	0.14	Seed rhizome	10	15000	40000	25000
Bhindi seeds	Kashi Kranti	March to Aug	0.14	Seed	0.3	5000	15000	10000
TOTAL			**8.28**		**490.3**	**1220000**	**2805000**	**1585000**

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.)

Rice	MTU 7029, CR Dhan 800	June – Dec, 2024	500	1200	TL seed	20000			

6. Extension Activities

Thrust area: Soil nutrient and water management through organic farming, natural farming and improved irrigation management (Thrust area 4)

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	5	140	30	170	30	4	0	4	144	34	178
2.	Kisan Mela	1	140	30	170	70	20	0	20	160	50	210
3.	Kisan Ghosthi	2	100	50	150	70	0	0	0	100	50	150
4.	Exhibition	1	100	50	150	70	0	0	0	100	50	150
5.	Film Show	10	200	100	300	100	0	0	0	200	100	300
6.	Method Demonstrations	3	140	30	170	40				140	30	170
7.	Farmers Seminar	1	50	10	60	50	0	0	0	50	10	60
8.	Workshop	1	50	10	60	50	0	0	0	50	10	60
9.	Group meetings	4	140	30	170	60				140	30	170
10.	Lectures delivered as resource persons	2	80	20	100	30	90	30	120	170	110	280
11.	Advisory Services	50	192609	26576	59000	30	0	0	0	192609	26576	219185
12.	Scientific visit to farmers field	12	300	50	350	30	0	0	0	300	50	350
13.	Farmers visit to KVK									0	0	0
14.	Diagnostic visits	20	180	20	200	21	0	0	0	180	20	200
15.	Exposure visits	2	100	50	150	30	0	0	0	100	50	150
16.	Ex-trainees Sammelan									0	0	0
17.	Soil health Camp	6	273	9	282	15	10	3	13	283	19	302
18.	Animal Health Camp	1	50	10	60	50	0	0	0	50	10	60
19.	Agri mobile clinic	1	50	10	60	50	0	0	0	50	10	60
20.	Soil test campaigns	4	140	30	170	24	0	0	0	140	30	170
21.	Farm Science Club Conveners meet	1	100	0	100	30	0	0	0	100	0	100
22.	Self Help Group Conveners meetings	1	0	100	100	30	0	0	0	0	100	100

23.	Mahila Mandals Conveners meetings	1	0	50	50	100	0	0	0	0	50	50
24.	Celebration of important days (specify)	10	400	100	500	100	0	0	0	400	100	500
25.	Sankalp Se Siddhi	0	0	0	0	0	0	0	0	0	0	0
26.	Swatchta Hi Sewa	2	175	75	250	70	0	0	0	175	75	250
27.	Mahila Kisan Diwas	1	0	100	100	100	0	0	0	0	100	100
28.	Any Other (Specify)	2	100	0	100	30	0	0	0	100	0	100
	Total	**144**	**195617**	**27540**	**62972**	**1220**	**124**	**33**	**157**	**195741**	**27664**	**223405**

Revolving Fund (in Rs.)

Opening balance of 2023 (As on 01.01.2023)	Amount proposed to be invested during 2023	Expected Return

7. Expected fund from other sources and its proposed utilization

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

8. On-farm trials to be conducted*

a. Productivity enhancement of field crops under jute based cropping system through improved approach and farm mechanization (Thrust area 1)

b. Production of disease-free planting materials and improvement of horticultural crops (Thrust area 2)

OFT 1 (2nd year):

Sl no.	Particulars	Details
1	**Season**	Summer 2024
2	**Title of the OFT**	Assessment of different improved weed management of jute under medium upland situation of Purba Bardhaman
3	**Thematic Area**	Improved agronomic management
4	**Problem Diagnosed**	Sub optimal productivity and low profitability of jute due to weed infestation

5	**Important Cause**	Non use of improved weed management measures
6	**Production System**	Jute based production system
7	**Micro farming System**	Cultivation of JRO 204
8	**Technology for Testing**	Improved weed management
9	**Existing Practice**	Hand weeding
10	**Hypothesis**	Improved weed management to result in improved productivity and profitability
11	**Objective(s)**	1. Improve productivity of jute 2. Improve profitability of jute
12	**Treatments:**	**Farmers Practice (FP):** Two hand weedings at 25 and 45 DAS **Technology option-I (TO-I):** Application of Fenoxaprop-p-ethyl (9% EC) @ 1.5 – 2.0 ml/lt after 15 days + One hand weeding **Technology option-II (TO-II):** Application of Propaquizafop (10% EC) @ 1.5 – 2.0 ml/lt after 15 days + One hand weeding
13	**Critical Inputs**	Seed (JRO 204), Herbicides
14	**Unit Size**	0.4 ha
15	**No of Replications**	10
16	**Unit Cost**	--
17	**Total Cost**	Rs. 6000
18	**Monitoring Indicator**	productivity, benefit:cost ratio
19	**Source of Technology**	ICAR-CRIJAF, Barrackpore

OFT 2 (2nd year):

Sl no.	**Particulars**	**Details**
1	**Season**	Rabi 2024-25
2	**Title of the OFT**	Assessment of different doses of sulfur application in mustard under medium upland situation of Purba Bardhaman
3	**Thematic Area**	Improved nutrient management
4	**Problem Diagnosed**	Sub optimal productivity and low oil quality of mustard
5	**Important Cause**	Non application of sulfur leading to
6	**Production System**	Jute based production system
7	**Micro farming System**	Cultivation of mustard (JD 6/B 9)

8	**Technology for Testing**	Improved nutrient management
9	**Existing Practice**	Non application of sulfur
10	**Hypothesis**	Improved nutrient management with inclusion of sulfur to result in improved productivity and profitability
11	**Objective(s)**	1. Improve productivity of mustard 2. Improve oil quality of mustard oil
12	**Treatments:**	**Farmers Practice (FP):** 80:40:40 NPK through 10:26:26 and urea (recommended dose) **Technology option-I (TO-I):** Recommended dose + 20 kg sulfur/ha through elemental sulfur **Technology option-II (TO-II):** Recommended dose + 30 kg sulfur/ha through elemental sulfur **Technology option-III (TO-III):** Recommended dose + 40 kg sulfur/ha through elemental sulfur
13	**Critical Inputs**	Sulfur
14	**Unit Size**	0.4 ha
15	**No of Replications**	10
16	**Unit Cost**	--
17	**Total Cost**	Rs. 15000
18	**Monitoring Indicator**	productivity, benefit:cost ratio
19	**Source of Technology**	ICAR-IIOR, Hyderabad

OFT 3:

Sl no.	**Particulars**	**Details**
1	**Season**	Kharif 2024
2	**Title of the OFT**	Assessment of different green manuring techniques on productivity of rice in jute-rice cropping system under medium upland situation of Purba Bardhaman
3	**Thematic Area**	Integrated Nutrient management
4	**Problem Diagnosed**	Decliing soil organic matter resulting in declining productivity of rice and deterioration of soil health
5	**Important Cause**	Non application of organic matter/green manuring leading to
6	**Production System**	Jute based production system
7	**Micro farming System**	Cultivation of kharif rice
8	**Technology for Testing**	Integrated Nutrient management
9	**Existing Practice**	Non application of green manuring

10	**Hypothesis**	Integrated nutrient management with inclusion of green manure crops to result in improved productivity and profitability
11	**Objective(s)**	1. Improve productivity of paddy 2. Improve soil quality
12	**Treatments:**	**Farmers Practice (FP):** NO application of organic manure with 100:50:50 NPK (recommended dose) **Technology option-I (TO-I):** 75% Recommended dose N + 100% P and K + Green manuring with sunnhemp **Technology option-II (TO-II):** 75% Recommended dose N + 100% P and K + Green manuring with sesbania
13	**Critical Inputs**	Seed of sesbania and sunnhemp
14	**Unit Size**	0.4 ha
15	**No of Replications**	10
16	**Unit Cost**	--
17	**Total Cost**	Rs. 15000
18	**Monitoring Indicator**	productivity, soil organic carbon (pre and post), yield attributing parameters, benefit:cost ratio
19	**Source of Technology**	ICAR-CRIJAF Barrackpore and ICAR-NRRI, Cuttack

OFT 4:

Production of disease-free planting materials and improvement of horticultural crops (Thrust area 2)

Sl no.	Particulars	Details
1	**Season**	Rabi 2023-24
2	**Title of the OFT**	Assessment of different doses of sulfur application in rabi Onion in Purba Bardhaman
3	**Thematic Area**	Improved nutrient management
4	**Problem Diagnosed**	Low productivity and lack of pungency of onion
5	**Important Cause**	Non application of sulfur leading to low productivity
6	**Production System**	Jute based production system
7	**Micro farming System**	Medium irrigated upland
8	**Technology for Testing**	Improved nutrient management
9	**Existing Practice**	Non application of sulfur
10	**Hypothesis**	Improved nutrient management with inclusion of sulfur to result in improved productivity and profitability
11	**Objective(s)**	1. Improve productivity of onion

		2. Improve pungency of onion
12	**Treatments:**	**Farmers Practice (FP):** 100:50:50 NPK (recommended dose) **Technology option-I (TO-I):** Recommended dose + 20 kg sulfur/ha through elemental sulfur **Technology option-II (TO-II):** Recommended dose + 40 kg sulfur/ha through elemental sulfur
13	**Critical Inputs**	Sulfur
14	**Unit Size**	0.4 ha
15	**No of Replications**	10
16	**Unit Cost**	--
17	**Total Cost**	Rs. 15000
18	**Monitoring Indicator**	productivity, benefit:cost ratio
19	**Source of Technology**	ICAR-DOGR, Maharashtra

OFT 5:

Production of disease-free planting materials and improvement of horticultural crops (Thrust area 2)

Sl no.	Particulars	Details
1	**Season**	Rabi
2	**Title of the OFT**	Assessment of humic acid and hydrogel in production of potato in jute based cropping system
3	**Thematic Area**	Potato cultivation
4	**Problem diagnosed**	Application of fertilizers in potato is very high. Application of humic acid and hydrogel can reduce the requirement of fertilizers by checking its leaching loss and improve water holding capasity
5	**Important Cause**	High nutrient loss and low water holding capacity
6	**Production system**	Jute-rice- potato cropping system
7	**Micro farming system**	Irrigated Medium Land
8	**Technology for Testing**	humic acid and hydrogel
9	**Existing Practice**	No use of humic acid and hydrogel
10	**Hypothesis**	Application of humic acid and hydrogel can reduce the requirement of fertilizers particularly N by checking its leaching loss and improve water holding capacity
11	**Objective(s)**	To minimize seedling mortality.
12	**Treatments:**	**Farmers Practice (FP):** 250: 150:200 kg NPK per ha

		Technology option-I (TO-I): 200: 150:200 kg NPK per ha + Humic acid @4kg/ ha **Technology option-II (TO-II):** 200: 150:200 kg NPK per ha + Hydrogel 5kg/ha
13	**Critical Inputs**	humic acid and hydrogel
14	**Unit Size**	0.2 ha
15	**No of Replications**	7
16	**Unit Cost**	3000
17	**Total Cost**	21000
18	**Monitoring Indicator**	Yield
19	**Source of Technology**	ICAR-IARI

OFT 6:

Sl no.	Particulars	Details
1	**Season**	Rabi 2024
2	**Title of the OFT**	Assessments of Managing leaf curl disease in tomato.
3	**Thematic Area**	Integrated pest management
4	**Problem diagnosed**	Low yield per unit area due to high leaf curling in tomato.
5	**Important Cause**	Leaf curl disease in tomato is one of the major diseases in Tomato. The virus causing this disease is tomato yellow leaf curl virus (TYLCV) and the virus is being transmitted by vector white fly. Thus, the vector should be controlled taking some measures for management of this disease.
6	**Production system**	Paddy- Tomato
7	**Micro farming system**	Irrigated Medium Land
8	**Technology for Testing**	Use of nylon net, root dipping and use of insecticide for the vector control as well as disease management
9	**Existing Practice**	Open nursery bed and indiscriminate use of pesticides on standing crop.
10	**Hypothesis**	Vector control may improve yield
11	**Objective(s)**	Significant yield improvement as well as increase in income
12	**Treatments:**	**Farmers Practice (FP):** Open nursery bed and indiscriminate use of pesticides on standing crop.

		Technology option-I (TO-I): Covering the nursery by nylon net of 40 mesh size followed by 4 sprays (10 days interval) of Spiromesifen 240 SC (22.9 % w/w) @ 1 ml/ litre of water on standing crop. **Technology option-II (TO-II):** Root dipping of seedling with Thiamethoxam 25% WP @ 0.3 gm /litre water for 5 minutes, followed by 4 sprays (10 days interval) of Spiromesifen 240 SC (22.9 % w/w) @ 1 ml/ litre of water on standing crop. **Technology option-III (TO-III):** Spray the seedling 2 times at nursery stage followed by 4 sprays (10 days interval) of Spiromesifen 240 SC (22.9 % w/w) @ 1 ml/ litre of water on standing crop.
13	**Critical Inputs**	Nylon net and chemicals
14	**Unit Size**	0.2 ha
15	**No of Replications**	7
16	**Unit Cost**	4000.00
17	**Total Cost**	28000.00
18	**Monitoring Indicator**	Disease incidence %, Yield, Net return, B:C ratio
19	**Source of Technology**	ANGRAU (A.P)

OFT 7: Agricultural Extension

S. No.	Particulars	Details
1	**Season**	- Kharif 2024
2	**Title of the OFT**	- Assessment of adoption of CRIJAF-SONA Bacterial consortium for jute retting by jute growers
3	**Thematic Area**	- Perception, Adoption and knowledge of CRIJAF-SONA Bacterial consortium
4	**Problem diagnosed**	- lack of information regarding CRIJAF SONA
5	**Important Cause**	- Information outreach, limited engagement
6	**Production system**	- Low and medium land
7	**Micro farming system**	-
8	**Technology for Testing**	- CRIJAF-SONA Bacterial Consortium released by CRIJAF
9	**Existing Practice**	- Traditional retting of jute
10	**Hypothesis**	
11	**Objective(s)**	- Perception towards CRIJAF-SONA for Jute retting - Knowledge regarding CRIJAF-SONA for Jute retting - Adoption level of CRIJAF – SONA for Jute retting

		- Extent of Adoption of CRIJAF-SONA
12	**Treatments:**	**Farmers Practice (FP):**-Traditional method of Jute retting using Mud/Banana pseudo stem **Technology Practice-I** Jute Retting using Mud bag **Technology option-I :** Jute retting through CRIJAF-SONA
13	**Critical Inputs**	- CRIJAF – SONA
14	**Unit Size**	- 40
15	**No of Replications**	-
16	**Unit Cost**	-
17	**Total Cost**	-
18	**Monitoring Indicator**	Perception, Knowledge and Adoption
19	**Source of Technology**	ICAR-CRIJAF

OFT 8:

S.No.	Particulars	Details
1	**Season**	- Kharif 2024
2	**Title of the OFT**	- **Assessment of effectiveness of visual based technical agriculture information dissemination through Whatsapp**
3	**Thematic Area**	- Information communication technology
4	**Problem diagnosed**	- **Delayed and lack of visual based technical agriculture information dissemination**
5	**Important Cause**	- Low Information outreach through print media and verbal communication
6	**Production system**	-
7	**Micro farming system**	-
8	**Technology for Testing**	Effectiveness of visual based technical agriculture information disseminated through Whatsapp
9	**Existing Practice**	- Verbal communication and print media
10	**Hypothesis**	
11	**Objective(s)**	- To assess the knowledge and perception toward Whatsapp - To assess the applicability, visibility, timeliness and reliability of the Whatsapp content.

		- To diagnose farmer's problems through text message, audio, video and photo.
12	**Treatments:**	**Farmers Practice (FP):-** Existing verbal and print media **Technology Practice-I** Dissemination of technical information through Whatsapp
13	**Critical Inputs**	-
14	**Unit Size**	- 40
15	**No of Replications**	-
16	**Unit Cost**	-
17	**Total Cost**	-
18	**Monitoring Indicator**	- Perception towards social media based technical information - Knowledge towards social media based technical information - Extent of utilization of technical information - Timeliness - Visibility of the content - Applicability - Need based information - Feedback
19	**Source of Technology**	- KVK, Budbud

OFT 9: Fishery Science

Sl no.	**Particulars**	**Details**
1	**Season**	Summer 2024
2	**Title of the OFT**	Evaluation of CIFA-farm-made feed at different feed rations to enhance fish productivity
3	**Thematic Area**	Pond productivity improvement
4	**Problem Diagnosed**	The Burdwan district's ponds have the problem of less or no feeding practices, leading to poor fish productivity in small and medium-sized ponds. As feed is the most crucial factor in the stocking management of ponds, the feeding rate should be standardized.
5	**Important Cause**	Non-application of proper supplementary feed at grows out culture of fish
6	**Production System**	Extensive fish-based production system
7	**Micro farming System**	Medium or small-sized domestic water bodies
8	**Technology for Testing**	Feed management in aquaculture

9	**Existing Practice**	Improper or no use of fish feed during grow-out culture
10	**Hypothesis**	Feeding at proper ration would increase the productivity of fish
11	**Objective(s)**	To improve fish productivity
12	**Treatments:**	FP: Application of indiscriminate use of supplementary feed ingredients at improper feeding ration TO1: Feeding with 1% body weight (BW) TO2: Feeding with 3% body weight (BW)
13	**Critical Inputs**	Ingredients for Farm Made feed*
14	**Unit Size**	0.066 ha
15	**No of Replications**	7
16	**Unit Cost**	3000
17	**Total Cost**	Rs. 21000
18	**Monitoring Indicator**	Growth Performance, Water quality parameters
19	**Source of Technology**	ICAR-CIFA, Bhubaneswar

*Farm-made feed made by locally available feed ingredients (Mustard Oil Cake: Rice Bran: 1:1 + Vitamin mineral premix)

OFT 10: Animal Science

S. No.	Particulars	Details
1	**Title of the OFT**	Evaluation of performance of different poultry breeds under backyard farming.
2	**Thematic Area**	Poultry management
3	**Problem diagnosed**	Poor egg production in poultry birds due to use of local, non-descriptive breeds
4	**Production system**	Free range/Semi intensive
5	**Micro farming system**	Household farming with 10-20 deshi hen under backyard management
6	**Technology for Testing**	Kaveri chicken and Vanaraja chicken
7	**Existing Practice**	Local breed
8	**Hypothesis**	Adoption of improved poultry breeds under backyard management will enhance the growth performance, egg production and return
9	**Objective(s)**	• To assess the performance of improved poultry breeds under backyard farming
10	**Treatments:**	**Farmers' practice:** Local breed **Technology-1 to be assessed:**Kaveri chicken

		Technology-2 to be assessed: Vanaraja chicken
11	**Critical Inputs**	• Breeds of Kaveriand Vanarajachicken
12	**Unit Size**	Twenty (20) chicks of improved breed in each treatment
13	**No of Replications**	7
14	**Unit Cost**	Rs.3500
15	**Total Cost**	Rs. 24500
16	**Monitoring Indicator**	• Growth performance • Age at 1st laying • Egg production • BC Ratio
17	**Source of Technology**	CPDO Bubaneswar

OFT 11: Home Science

S. No.	Particulars	Details
1	**Season**	Round the year
2	**Title of the OFT**	Development of raw banana value added products to meet the increased energy demand and enhancing income of SHG.
3	**Thematic Area**	Value addition for income generation
4	**Problem diagnosed**	Raw Banana is mainly consumed as vegetable that also very rarely. Due to its high perishability, there is loss of raw bananas during peak season. Therefore, value addition products can be developed to meet increase energy demand and improve the shelf-life of bananas.
5	**Important Cause**	Lack of appropriate value addition knowledge and its importance
6	**Production system**	Homestead banana based product
7	**Micro farming system**	Backyard farming system
8	**Technology for Testing**	Impact of value added products of raw banana for increasing shelf life and to meet energy demand.
9	**Existing Practice**	People consume raw banana as vegetable only like kacha kola kofta
10	**Hypothesis**	Use of value added banana products will increase the shelf-life of raw banana and will also meet the increased demand and improve the income of SHGs.
11	**Objective(s)**	Increase in calorie intake per day Comparison of shelf-life of different value added products of banana

		Increase in net income of SHGs
12	**Treatments:**	**Farmers' practice:** Farmers consume banana as a vegetable that also very rarely. **Technology-1** to be assessed: Value addition of banana by making banana chips **Technology-2** to be assessed: Value addition of banana by making banana powder
13	**Critical Inputs**	Banana, cooking oil, salt, turmeric power, slicer, mixer- grinder and plastic zip lock pouch
14	**Unit Size**	10 (5 each)
15	**No of Replications**	10
16	**Unit Cost**	Rs. 600 *10 + 5000 (Mixer-grinder) + 500 (Zipper bags)
17	**Total Cost**	Rs. 11,500
18	**Monitoring Indicator**	Sensory evaluation, Total energy intake, Keeping quality, Net return
19	**Source of Technology**	ICAR-National Research Centre for Banana, Tamil Nadu

9. 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		

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

A. Entrepreneurship development through making of jute handicraft (2)

11. Scientific Advisory Committee

Date of SAC meeting held during 2023	Proposed date during 2024
March, 2023	March, 2024

12. 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	50	10	0	0	0	90	0	100	0	100	10	100
Water Samples												
Other (Please specify)												

Total	50	10	0	0	0	90	0	100	0	100	10	100

13. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2024	Expected fund requirement (Rs.)
Recurring		
i. Pay & allowance	**1,48,92,387/-**	**1,6730000.00**
ii. Contingency	**1,73,88,748/-**	**30,00,000.00**
iii. TA	**1,53,130/-**	**2,00,000.00**
iv. HRD	**0/-**	**30,000.00**
Non-recurring (specify)		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)	**0.00/-**	**30,00,000.00**
iv. Furniture & Equipment	**86,258**	**150000.00**
v. Vehicle and tractor	**7,99,679**	**2.00**
TOTAL		**2,30,60,000.00**

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

(Sr. Scientist and Head)
Krishi Vigyan Kendra
Bud Bud, Purba Bardhaman