ACTION PLAN
2025

KRISHI VIGYAN KENDRA BURDWAN

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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
I Crop Production														
Production technology	Improved production technology of jute in jute based cropping system **Topics:** 1. Climate smart agriculture and importance of jute therein 2. Improved cultivars of jute and their characteristics 3. Improved agronomic management of jute including sowing with seed drill, weeding with CRIJAF weeder, soil test based fertilization, weed management, irrigation	2	3	Off	March and August	40	20					40	20	60

	management, pest and disease management 4. Improved post harvest operations including retting with CRIJAF SONA Jute retting pond based eco farming system													
Post harvest management	Awareness camp and hand on training on Improved retting methodology of jute	2	1	Off	August	40	20					40	20	60
Production technology	Improved production technology of Jute and crop protection therein in rainwater harvesting based IFS on Jute **Topics:** 1. Climate smart agriculture and importance of jute therein 2. Improved cultivars of jute and their characteristics 3. Improved agronomic management of jute including sowing with seed drill, weeding with CRIJAF weeder, soil test based fertilization, weed management, irrigation management, pest and disease management 4. Improved post harvest operations including retting with CRIJAF SONA Jute retting pond based eco farming system	1	3	Off	January	20	10					20	10	30
Resource Conservation Technologies	Rice cultivation following SRI principles in jute-rice cropping system **Topics:** 1. Climate smart agriculture and importance of SRI therein	1	3	Off	December	25	5					25	5	30

	2. Evolution of SRI system, spread and advantages of using SRI principles **3.** Improved agronomic management of rice following SRI principles including seed bed preparation, seed treatment, transplanting using marker or rope, soil test based fertilization, use of organic amendments, weed management, irrigation management, **pest and disease management** 4. Use of methanotrophs in controlling methane emission in the light of climate change mitigation 5. Hand on training on seedbed preparation, **seed treatment** and sowing in seedbed RP: D. Ghorai, S. Garai, S. S. Kundu													
Conservation agriculture	Sustainable crop production through conservation agriculture in jute based cropping system **Topics:** 1. Need for conservation agriculture in the light of soil and water conservation and climate change mitigation 2. Principles of conservation agriculture 3. Field crop production (Rice, wheat, pulses, oilseeds, jute) with minimum mechanical soil disturbance 4. Use of soil organic cover for resource conservation	1	3	Off	February	20	10					20	10	30

	5. Crop rotation and its importance													
Production technology	Organic farming and natural farming in jute based cropping system **Topics:** 1. Organic farming principles and four pillars of organic farming 2. The Principle of Health in organic farming 3. The Principle of Ecology in organic farming 4. The Principle of Fairness in organic farming 5. The Principle of Care in organic farming 6. Various organic amendments and its production protocols 7. Need for natural farming in the light of climate change mitigation and adaptation 8. Principles of natural farming and its four pillars 9. Production and use of *Beejamrit*, *Jeevamrit*, *Ghanjeeevamrit*, etc 10. Hand on training on production of inputs required for natural farming Benefits of *Acchchadan* in natural farming in the light of resource conservation	2	3	Off and On	February, and November	50	10					50	10	60
Production technology	Importance of natural fibre based integrated farming. **Topics:** 1. Need for integrated farming system and profitable IFS under Burdwan situation	2	3	Off	November and December	50	10					50	10	60

	2. Natural fibres and their importance in diminishing soil and water pollution 3. Jute based IFS development and the benefits therein 4. Sisal based IFS in drier areas and intercropping of flowers/vegetables and with sisal and their production technology 5. Sunnhemp for green manure and sunnhemp based IFS 6. Importance of flax and flax based IFS Mesta based IFS and importance of roselle and its value addition techniques													
II. Horticulture														
Nutrient management	Production and use of organic inputs in IFS	1	3	On	January 3rd week, 2025	19	11	30				19	11	30
Nursery management	Vegetable nursery management in jute based cropping system	1	3	Off	January 3rd week, 2025	11	19	30				11	19	30
Production and Management technology	Improved production technology of tissue cultured banana in jute based cropping system Topics: i. Concept and importance of TCB ii. Cultivation practice of TCB iii. Pest management of TCB iv. Disease management of TCB	1	3	Off	August, 2nd week 2025	15	15	0	0	0	0	15	15	30

	(Resource persons: S. Sarkar, S. S. Kundu, S. Garai)													
Water management	Micro irrigation technology in jute based cropping system Topics: i. Concept and importance of Micro irrigation technology ii. Different types of micro irrigation iii. Advantage and disadvantage of different micro irrigation **(Resource persons: S. Sarkar)**	1	3	Off	September, 1st week 2025	15	15	0	0	0	0	15	15	30
Plant propagation techniques	Plant propagation techniques of sub-tropical fruit crops Topics: i. Concept and importance of vegetative propagation ii. Different types of vegetative propagation iii. Hand on experience of grafting , air layering, budding iv. Management of pest and disease of mother plants and saplings **(Resource persons: S. Sarkar, S. S. Kundu, S. Garai)**	1	3	On	August, 4th week 2025	15	15	0	0	0	0	15	15	30
Nursery management	Nursery management of vegetable crops in jute based cropping system Topics: v. Different types of nursery	1	3	Off	Spt, 2nd week 2025	15	15	0	0	0	0	15	15	30

	vi. Use of seed tray and coco peat vii. Pest management of vegetable nursery viii. Disease management of vegetable nursery **(Resource persons: S. Sarkar, S. S. Kundu, S. Garai)**													
Vegetable cultivation	Cultivation techniques of solanaceous vegetables in jute based cropping system **Topics:** i. Nutritional importance of solanaceous crop ii.Improved production technologies of solanaceous vegetables iii. Insect management in solanaceous crops iv. Disease management in solanaceous crops **(Resource persons: S. Sarkar, S. Garai, SS Kundu)**	1	5	Off	Oct, 4th week 2025	15	15	0	0	0	0	15	15	30
Production and Management technology	Improved production technology of potato in jute based cropping system **Topics:** i. Importance and varieties of potato ii. Cultural practices of potato iii. Nutrient management in potato iv. Insect and disease management of potato **(Resource persons: S. Sarkar, D. Ghorai, S. Garai, SS Kundu)**	1	3	On	Nov, 3rd week 2025	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 field and vegetable crops v. Disease management of field and vegetable crops **(Resource persons: S. Sarkar, D. Ghorai, S. Gari, SS Kundu)**	1	5	Off	Dec, 3rd week 2025	15	15	0	0	0	0	15	15	30
Nutrient management														
Crop production	Improved production technology of Jute and crop protection therein rainwater harvesting based integrated farming system of Jute.	1	5	Off	22.01.2025, 23.01.2025, 24.01.2025, 06.02.2025, and 07.02.2025	0	30	0	0	0	0	0	30	30
Soil fertility management	Role of nutrient vis-à-vis crop production in jute based cropping system	1	3	Off	September	20	10					20	10	30
Soil fertility management	Role of macro and micronutrient and deficiency symptoms in field and horticultural crop in jute-based cropping system **Topics:** i. Need for soil testing and soil test-based fertilizer application ii. Role of plant nutrients in crop production	1	3	Off	January	20	10					20	10	30
Integrated Nutrient Management	Benefits of INM in field crops in jute-based cropping system **Topics:**	1	3	Off	October	20	10					20	10	30

	1. Balancing Nutrient Inputs 2. Matching Supply with Demand 3. Optimizing Soil Health 4. Managing Nutrient Losses 5. Integrating Different Sources 6. Economic Viability and Environmental Safety 7. The 4Rs of Nutrient Stewardship Soil Testing and Analysis													
Production and use of organic inputs	Need for composting and different types of compost preparation **Topics:** 1. Backyard/Home Composting: 2. Vermicomposting: 3. Aerobic Composting: 4. Anaerobic Composting: 5. Industrial Composting: 6. Farmyard Manure: 7. Green Manure: 8. Mushroom Compost: 9. Ericaceous Compost: 10. Regular Compost: 11. Biodymnamic compost 12. NADEP composing Composting of poultry litter for safe disposal	1	3	Off	August	20	10					20	10	30
Production and use of organic inputs	Organic farming and natural farming in jute based cropping system Topics: 1. Organic farming principles and four pillars of organic farming 2. The Principle of Health in organic farming	1	3	Off	January	20	10					20	10	30

	3. The Principle of Ecology in organic farming 4. The Principle of Fairness in organic farming 5. The Principle of Care in organic farming 6. Various organic amendments and its production protocols 7. Need for natural farming in the light of climate change mitigation and adaptation 8. Principles of natural farming and its four pillars 9. Production and use of Beejamrit, Jeevamrit, Ghanjeeevamrit, etc 10. Hand on training on production of inputs required for natural farming 11. Benefits of Acchchadan in natural farming in the light of resource conservation													
Micro nutrient deficiency in crops	Role of macro and micronutrient in soil and crop health in jute based cropping system **Topics:** 1. Need for soil testing and soil test-based fertilizer application 2. Role of plant nutrients in crop production 3. Deficiency symptoms of nutrient in field crops and horticultural crops	2	3	On	September and November	60	0					60	0	60
V. Veterinary Science														
Dairy Management	Care and management of pregnant cattle and newborn calf	2	5	Off	4th week of January,2025	40	20	0	0	0	0	40	20	60

	• Care and management of cattle during dry period • Signs of approaching parturition • Management immediately after calving • Care and management of newborn calf **Resource Person: M. Lavanya**				& 4th week of March, 2025									
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 **Resource Person: M. Lavanya**	2	3	Off	3rd week of January & 1st week of April, 2025	40	20	0	0	0	0	40	20	60
Poultry management	Backyard poultry management **Resource Person: M. Lavanya**	1	3	On	2nd week of May, 2025	20	10	0	0	0	0	20	10	30
Piggery management	Managemental practices for profitable Pig rearing **Resource Person: M. Lavanya**	1	3	Off	2nd week of June, 2025	20	10	0	0	0	0	20	10	30
Feed management	Quality improvement of Poor quality roughages **Resource Person: M. Lavanya**	1	3	Off	2nd week of July, 2025	20	10					20	10	30
Production of quality animal products	Value Addition of Livestock Products	1	3	Off	1st week of August	20	10					20	10	30

	Resource Person: M. Lavanya													
Disease management	Different types of diseases caused in cattle- prevention-management **Resource Person: M. Lavanya**	1	3	Off	1st week of September	20	10					20	10	30
VI. Fishery Science														
Carp fry and fingerling rearing	Different pond management in fish farming i. Nursery pond preparation and management ii. Rearing pond preparation and management iii. Grow-out Pond preparation and management iv. Disease management in grow out pond v. Water quality management in grow out pond **Resource person: S. Bhadra**	2	5	Off	3rd week of January,2025 & 1st week of August	40	20	0	0	0	0	40	20	60
Integrated fish farming	Integrated fish farming for livelihood improvement i. Integrated cattle-cum-fish farming in a backyard pond ii. Integrated duck-cum-fish farming in backyard pond	1	5	On	3rd week of August, 2025	20	10	0	0	0	0	20	10	30

	iii. Integrated goat-cum-fish farming in the backyard pond iv. Integrated poultry-cum-fish farming in the backyard pond v. Integrated horticulture-cum-fish farming **Resource Persons: S. Bhadra, M. Lavnaya, S.Sarkar**													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking ponds	Feed management in aquaculture i. Different feed ingredients and types of fish feed ii. Types of fish farming based on feeding and calculation of feed ration iii. Selection of feed ingredients to make farm made feed **Resource Person: S. Bhadra**	1	3	Off	1st week of September, 2025	20	10	0	0	0	0	20	10	30
Fish Disease	Fish disease and management i. Causes of fish Disease and types of fish disease ii. Good Aquaculture Practices (GAP) iii. Treatment of fish diseases **Resource person: S. Bhadra**	1	3	Off	4th week of August, 2025	20	10	0	0	0	0	20	10	30

Integrated fish farming	Pre- and post-stocking management in jute retting pond-based fish farming i. Pre-stocking management of jute retting pond ii. Post-stocking management of jute retting pond iii. Water quality and feed management in jute retting pond-based aquaculture **Resource person: S. Bhadra, D. Ghorai**	1	3	Off	4th week of September, 2025	20	10					20	10	30
Others (Air breathing fish farming)	Air breathing fish farming with special reference to *Clarias magur* (Desi Magur/Asian catfish) i. Feed management and low-cost intensive air breathing fish/ *C. magur* farming ii. Disease Management in air breathing fish/ *C. magur* farming iii. Water quality management in air breathing fish/ *C. magur* farming **Resource person: S. Bhadra**	1	3	On	3rd week of October	20	10					20	10	30
VII. Agriculture Extension														
Agril. Extension: Farmers Producer Organizations (FPOs) and Self	Empowering Farmers through Farmers Producer Organizations (FPOs) and Self Help Groups (SHGs) Topics:	2	3	OFF	17.01.2025 to 19.01.2025 & 2nd Week of March	30	30					30	30	60

Help Group (SHGs)	i. To provide an understanding of the concept and benefits of FPOs and Self Help Groups (SHGs) ii. Train farmers on the operational aspects of forming and running FPOs and Self Help Groups (SHGs). iii. To enhance farmers' knowledge of government schemes and financial support available for FPOs and Self Help Groups (SHGs). **Resource person: Vinod Kumar**													
National Livestock Mission and rearing of animals under the scheme	Empowering Rural farmers through the National Livestock Mission (NLM) Topics: 1. To raise awareness about the NLM scheme and its components 2. To educate farmers on the application process and eligibility criteria. 3. To inform farmers about the financial and technical support available under NLM 4. Knowledge and basic principles about rearing animals under NLM Scheme **Resource Person: Vinod Kumar, M. Lavanya**	2	5	Off	19.01.2025 to 23.01.2025 & 1st week of June	40	20					40	20	60
Mechanization of Farms through	Enhancing Efficiency and Sustainability through Custom Hiring Centers	1	3	ON	1st week of August	15	15					15	15	30

Custom Hiring Centers	**Topics:** 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 **Resource Person: Vinod Kumar, D. Ghorai**													
Awareness Cum Training Programme	Entrepreneurship Development Through Pradhan Mantri Formalization of Micro Food Processing Enterprises (PMFME) **Topics:** 1. How the scheme supports the formalization and growth of micro food processing enterprises 2. Financial assistance, subsidies, and credit-linked support available under the scheme 3. One District One Product (ODOP) Approach 4. Role of NABARD, banks, and other financial institutions in providing support **Resource Person: Vinod Kumar, S. Sarkar**	1	1	ON	3rd Week of August	20	10					20	10	30

Awareness Cum Training Programme	Strengthening Farmers Through ICT: A Training Program for Modern Agricultural Practices **Topics:** 1. Introduction to ICT and its Importance in Modern Agriculture 2. Overview of Digital Devices and Tools for Farmers 3. Mobile Apps and ICT Tools for Farm Management 4. Advanced ICT Tools for Precision Agriculture **Resource Person: Vinod Kumar**	1	1	ON	1st Week of September	20	10					20	10	30
Entrepreneurship Development	Empowering Rural Farmers through PMMSY (Pradhan Mantri Matsya Sampada Yojana) **Topics:** 1. Educate rural farmers on the goals, components, and benefits of PMMS. 2. Providing Knowledge to avail subsidies, financial assistance, and support under the scheme. 3. Building and Enhancing Fish Farming Infrastructure 4. Fisheries Management and Sustainability Practices 5. Post-Harvest Management and Marketing	1	3	ON	2nd Week of October	15	15					15	15	30

	Resource Person: V. Kumar, S. Bhadra													
TOTAL		**52**	**1-5**			**1000**	**560**	**60**	**0**	**0**	**0**	**1000**	**560**	**1560**

(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**
Production and use of organic inputs	Vermicompost production at farmers level **Topics:** 1. Need for composting and various types of compost 2. Various methods of vermicomposting 3. Benefits of vermicompost in augmenting soil health Commercial production of vermicompost for entrepreneurship	2	2	On	August and September	40	20					40	20	60
Seed production	Seed production of different field crops in jute based cropping system **Topics:** 1. Seed production of paddy 2. Seed production of oilseeds 3. Seed production of pulses 4. Seed production of jute **5.** Seed production of sesbania/sunnhemp Seed certification and entrepreneurship generation through seed production **6. Pest Management of field crops** D. Ghorai, S. Garai, S. S. Kundu	1	3	Off	September	20	10					20	10	30

Soil testing	Need for soil testing and soi test based fertilizer application vis-à-vis jute based farming systems **Topics:** • Determining nutrient status • Identifying nutrient deficiencies and excesses • Optimizing fertilizer application rates • Improving crop yields and quality • Reducing environmental pollution • Cost-effectiveness • Informed decision-making • Maintaining soil health • Tailored fertilizer recommendations • Sustainable farming practices	1	3	On	December	20	10					20	10	30
Production and use of organic inputs	Natural Farming 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 natural farming **(Resource persons: S. Sarkar, D. Ghorai, S. Gari, SS Kundu)**	1	5	Off	August 1st week, 2025	10	20	0	0	0	0	10	20	30
Mushroom Production	Livelihood development through Improved Production of Oyster mushroom	2	3	On	((11.11.2025-13.11.2025) and (09.12.2025, 11.12.2025)	30	30	0	0	0	0	30	30	60
Bee-keeping	Bee-keeping for better pollination and alternative livelihood	2	3	Off	(25.11.2025-27.11.2025) and	40	20	0	0	0	0	40	20	60

					(16.12.2025, 18.12.2025)									
Others (Improved aquaculture production system and management)	Advanced aquaculture technology i. Recirculatory aquaculture system (RAS) ii. Biofloc technology (BFT) iii. Aquaponic system iv. Integrated multitrophic aquaculture (IMTA) **Resource person: S. Bhadra**	1	3	On	1st week of October	20	10					20	10	30
Ornamental fisheries	Ornamental fish farming i. Acquittance on commercially important ornamental fish species ii. Ornamental fish biology and breeding in small backyard tank or Aquarium iii. Disease Management of ornamental fisheries **Resource person: S. Bhadra**	1	3	On	1st week of November	20	10					20	10	30
Poultry management	Scientific broiler production and management • Housing of birds • Brooding management • Feeding management • General management • Disease management **Resource Person: M. Lavanya**	1	3	On	1st week of October	20	10					20	10	30
Digital 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.	1	3	On	November 4th week	20	10	0	0	0	0	20	10	30

	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 **Resource Person: V. Kumar, S. Sarkar**													
TOTAL		**13**	**3-5**			**240**	**150**	**0**	**0**	**0**	**0**	**240**	**150**	**390**

(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	1	3	Off	October	20	10	30	0	0	0	20	10	30
TOTAL		1	3			**20**	**10**	**0**	**0**	**0**	**0**	**20**	**10**	**30**

(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	1	14	On	3rd week of September 2025	0	20	0	0	0	0	0	20	20
Women empowerment	Making of jute handicrafts	1	7	On	1st week of November, 2025	0	20	0	0	0	0	0	20	20
TOTAL		**2**	**21**			**0**	**40**	**0**	**0**	**0**	**0**	**0**	**40**	**40**

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													
Resource Conservation Technologies	2	0	0	0	40	20	60	0	0	0	40	20	60
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	1	0	0	0	0	30	30	0	0	0	0	30	30
Fodder production													
Production of organic inputs	3	0	0	0	75	15	90	0	0	0	75	15	90
Others, (cultivation of crops)	4	0	0	0	80	40	120	0	0	0	80	40	120
TOTAL	**11**	**0**	**0**	**0**	**215**	**115**	**330**	**0**	**0**	**0**	**215**	**115**	**330**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management	1	0	0	0	19	11	30	30	0	30	19	11	30
Water management	1	0	0	0	15	15	30	0	0	0	15	15	30
Enterprise development													
Skill development	1	0	0	0	15	15	30	0	0	0	15	15	30
Yield increment	1	0	0	0	15	15	30	0	0	0	15	15	30
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.)													
Others, if any (Cultivation of Vegetable)	1	0	0	0	15	15	30	0	0	0	15	15	30
TOTAL	**7**	**0**	**0**	**0**	**109**	**101**	**210**	**30**	**0**	**30**	**109**	**101**	**210**
b) Fruits													

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
Training and Pruning													
Layout and Management of Orchards	1	0	0	0	15	15	30	0	0	0	15	15	30
Cultivation of Fruit	1	0	0	0	15	15	30	0	0	0	15	15	30
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
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													

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
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management	2	0	0	0	40	20	60	0	0	0	40	20	60
Soil and Water Conservation													
Integrated Nutrient Management	1	0	0	0	20	10	30	0	0	0	20	10	30
Production and use of organic inputs	2	0	0	0	40	20	60	0	0	0	40	20	60
Management of Problematic soils													
Micro nutrient deficiency in crops	3	0	0	0	90	0	90	0	0	0	90	0	90
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL	**8**	**0**	**0**	**0**	**190**	**50**	**240**	**0**	**0**	**0**	**190**	**50**	**240**
IV. Livestock Production and Management													
Dairy Management	2	0	0	0	40	20	60	0	0	0	40	20	60
Poultry Management	1	0	0	0	20	10	30	0	0	0	20	10	30
Piggery Management	1	0	0	0	20	10	30	0	0	0	20	10	30
Rabbit Management													
Disease Management	1	0	0	0	20	10	30	0	0	0	20	10	30
Feed management	1	0	0	0	20	10	30	0	0	0	20	10	30
Production of quality animal products	1	0	0	0	20	10	30	0	0	0	20	10	30
Others, if any (Goat farming)	2	0	0	0	40	20	60	0	0	0	40	20	60
TOTAL	**9**	**0**	**0**	**0**	**180**	**90**	**270**	**0**	**0**	**0**	**180**	**90**	**270**
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													

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
Storage loss minimization techniques													
Enterprise development													
Value addition													
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													
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													
TOTAL													
VII. Plant Protection													
Integrated Pest Management													
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL		**0**	**0**	**0**									
VIII. Fisheries													
Integrated fish farming	2	0	0	0	40	20	60	0	0	0	40	20	60
Carp breeding and hatchery 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
Carp fry and fingerling rearing	2	0	0	0	40	20	60	0	0	0	40	20	60
Composite fish culture & fish disease	2	0	0	0	40	20	60	0	0	0	40	20	60
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	**8**	**0**	**0**	**0**	**160**	**80**	**240**	**0**	**0**	**0**	**160**	**80**	**240**
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	2	0	0	0	30	30	60	0	0	0	30	30	60

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
Mobilization of social capital													
Entrepreneurial development of farmers/youths	2	0	0	0	35	25	60	0	0	0	35	25	60
WTO and IPR issues													
Others, if any	4	0	0	0	75	35	110	0	0	0	75	35	120
TOTAL	**8**	**0**	**0**	**0**	**140**	**90**	**230**	**0**	**0**	**0**	**140**	**90**	**240**
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	**53**	**0**	**0**	**0**	**1024**	**556**	**1580**	**30**	**0**	**30**	**1024**	**556**	**1590**

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	30	30	60	0	0	0	30	30	60
Bee-keeping	2	0	0	0	40	20	60	0	0	0	40	20	60
Integrated farming													
Seed production	1	0	0	0	20	10	30	0	0	0	20	10	30
Production of organic inputs	3	0	0	0	50	40	90	0	0	0	50	40	90
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													

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
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production	1	0	0	0	20	10	30	0	0	0	20	10	30
Ornamental fisheries	1	0	0	0	20	10	30	0	0	0	20	10	30
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	1	0	0	0	20	10	30	0	0	0	20	10	30
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts	2	0	0	0	0	40	40	0	0	0	0	40	
Enterprise development													
Others if any (ICT application in agriculture)	2	0	0	0	40	20	60	0	0	0	40	20	60
TOTAL	**15**	**0**	**0**	**0**	**240**	**190**	**430**	**0**	**0**	**0**	**240**	**190**	**390**

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	1	0	0	0	20	10	30	0	0	0	20	10	30
TOTAL	**1**	**0**	**0**	**0**	**20**	**10**	**30**	**0**	**0**	**0**	**20**	**10**	**30**

4. Frontline demonstration to be conducted*

FLD 1:

- **Crop**: Jute
- **Thematic Area**: Improved production technology
- **Season**: Pre Kharif 2025
- **Farming Situation**: Irrigated medium upland

FLD 2:

- **Crop**: Rice (Kharif)
- **Thematic Area**: Integrated crop management
- **Season**: Kharif 2025
- **Farming Situation**: Irrigated medium upland

CFLD 3:

- **Crop**: Mustard
- **Thematic Area**: Nutrient management
- **Season**: Rabi 2025-26
- **Farming Situation**: Irrigated medium upland

CFLD 4:

- **Crop**: Sesame
- **Thematic Area**: Integrated nutrient management
- **Season**: Summer 2025-26
  Farming Situation: Irrigated medium upland

FLD 5

- **Crop**: Tissue Cultured Banana
- **Thematic Area**: Crop diversification
- **Season**: Kharif
- **Farming Situation**: Irrigated Medium/ upland

FLD 6

- **Crop / Enterprise:** Vegetable seedlings
- **Thematic Area**: Vegetable Nursery
- **Season**: Rabi
- **Farming Situation**: Irrigated Medium/ upland

FLD 7

- **Crop**: Oyster Mushroom
- **Thrust Area**: Augmentation of productivity
- **Thematic Area**: Improved production technology
- **Season**: November, 2025
- **Farming Situation**: In-house

FLD 8

- Enterprise/Corp: Fish (Amrit Catla/GI Catla)
- Thrust Area: Species diversification
- Thematic: Production and Management
- Season: Kharif, 2025
- System of rearing: Semi-intensive pond based, Rainfed
- Species: *Labeo catla*

FLD 9

- Enterprise/Corp: Fish medicine
- Thrust Area: Disease management
- Thematic: Disease management
- Season: Round the year

- System of rearing: Semi-intensive pond based, Rainfed
- Medicine: CIFE-ARGUNIL/ CIFRI-ARGCURE (Available in Trade name)

FLD 10

- **Enterprise/Crop**: Dairy management
- **Thematic area:** Livestock Health Management
- **Season:** Nil
- **Farming situation:** Semi-intensive system of rearing

FLD 11

- **Enterprise/Crop**: Disease management
- **Thematic area:** Livestock Health Management
- **Season:** Nil
- **Farming situation:** Semi-intensive system of rearing

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 ha	Seed treatment+ Use of seed drill/cycle weeder+ 80:40:40 NPK+retting with CRIJAF SONA	Plant height, base diameter, yield	Seed	73000	78000	50	0	0	0	0	0	50	0	50
2	Rice; MTU 7029	20 ha	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	60	0	0	0	0	0	60	0	60
3	Mustard; JD 6/Keshari	50 ha	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	0	0	0	0	125	0	125	0	125

4	Sesame	20 ha	Soil test based N, P, K + 30 kg S/ha+ two foliar spray of boron along with micronutrient mixture (Aquacal)	No. of pods/plant, yield	Seed, sulfur, micronutrient	38000	37000	0	0	0	0	50	0	50	0	50
5	Banana	2	Tissue Cultured planting materials	Yield, B:C ratio	Tissue Cultured saplings	150000	175000	10	5					10	5	15
6	Vegetable seedlings	1000 no of trays	Vegetable seedlings will be raised on seed trays/ pluck trays in coco peat	Seedlings mortality rate, disease incidence and B:C ratio	seed trays/ pluck trays and coco peat	30000 for 1 lakh seedlings	25000 for 1 lakh seedlings	5	5					5	5	10
7	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
8	Amrit Catla	5 ha	Introduction of Amrit catla/GI catla (*Labeo catla*) in IMC based polyculture system FP: Culture of non-improved variety of Catla RP: Incorporation of Amrit catla in IMC based polyculture system with stocking density of 3000 nos /ha	Yield, B:C ratio	Fingerings of GI catla/Amrit catla	40000	30000	10						10		10
9	CIFE-ARGUNIL/CIFRI-ARGCURE	5 ha	Demonstration of CIFE-ARGUNIL/CIFRI-ARGCURE against fish lice (Argulus) FP- Use traditional medicine or indiscriminate use of chemotherapeutics	Survivability rate or Mortality rate	CIFE-ARGUNIL/CIFRI-ARGCURE available	50000	30000	10						10		10

			RP- Application of CIFE-ARGUNIL/ CIFRI-ARGCURE to Argulosis.		in trade name											
10	Dairy management	10	**Demonstration of Ethinoveterinary practices to treat mastitis in cattle** FP**:** Use of antibiotics without following schedule RP: Paste made with aloe Vera, turmeric, and calcium carbonate- topical and feeding of lemons (Ethnoveterinary medicine)	disease incidence, no. of animals cured, Milk yield, BCR	Aloe vera, turmeric, calcium hydroxide, lemon	5000	6000	5	5					5	5	10
11	Livestock Health management	10	**Large animal ectoparasite expeller cum drug applicator** FP: Handpicking of adult parasite, most instances not attending to the problem RP: Use of ectoparasite expeller cum drug applicator	Growth, BCR	Applianc e	12000	14000	5	5					5	5	10
TOTAL								**160**	**25**	**0**	**0**	**175**	**0**	**335**	**25**	**360**

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 TCB	1	PF	1	Off	10	5	0	0	15	0	10	5	15
	Nursery management of vegetable crops in jute based cropping system	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
	Field visit	2	PF	Half day each	Off	40	10					40	10	50
	Field visit	4	PF	Half day each	Off	40	0					40	0	40
	Field visit	4	PF	Half day each	Off	40	0					40	0	40
Field day	Feld day on all crops	5	PF	Half day each	Off	140	30					140	30	170

	Oyster mushroom	1	RY	1	Off	10	10	0	0	0	0	10	10	20
	Feld day on demonstration of CIFE-ARGUNIL	1	PF	Half day each	Off	10	0					10		10
	Field day on i*ntroduction of GI catla (Gibelion catla) in IMC based polyculture system*	1	PF	Half day each	Off	10	0					10		10
	Field day on demonstration of ethnoveterinary practice to treat mastitis in cattle	1	PF	Half day each	Off	10	0					10		10
	Field day on demonstration of use of large animal ectoparasite expeller cum drug applicator	1	PF	Half day each	Off	10	0					10		10

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.)**
Kharif rice	MTU 1153	Jun 2025- December 2025	2	Foundation seed	90	350000	750000	400000
	MTU 7029	Jun 2025- December 2025	2	Foundation seed	100	350000	750000	400000
Flax	--	Oct 25- Mar 26	2	TL seed	20	175000	200000	25000
Sesbania	Rostrata	July – Dec 25	1	TL seed	5	20000	25000	5000
Turmeric Seeds	Suguna	April to Feb	0.14	Seed rhizome	5	5000	10000	5000
Vegetable seedlings	Different vegetables	Aug to Nov	0.02	Seedlings	40000 nos.	15000	32000	17000
TOTAL			**7.16**		**220q + 40000 nos.**	**915000**	**1767000**	**852000**

b) Village Seed Production Programme

		Period	**Area**	**No. of**	**Details of Production**

Name of the Crop / Enterprise	Variety / Type	From…… … to …….	(ha.)	farmers	Type of Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Rice	MTU 7029, MTU 1153	June – Dec, 2025	500	1200	TL seed	20000			
Sunnhemp	Prankur	Oct 25-Mar 26	1	10	TL seed	7			
Sesbania	Rostrata	July – Dec 25	1	10	TL seed	5			

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	0	0	0	0	0				0	0	0
2.	Kisan Mela	1	140	30	170	100				140	30	170
3.	Kisan Ghosthi	2	40	20	60	100				40	20	60
4.	Exhibition	0	0	0	0	0				0	0	0
5.	Film Show	1	15	15	30	100				15	15	30
6.	Method Demonstrations	5	200	30	230					200	30	230
7.	Farmers Seminar	0	0	0	0	0				0	0	0
8.	Workshop	0	0	0	0	0				0	0	0
9.	Group meetings	4	140	30	170	100				140	30	170
10.	Lectures delivered as resource persons	2	80	20	100	100				80	20	100
11.	Advisory Services	50	0	0	0	0				0	0	0
12.	Scientific visit to farmers field	0	0	0	0	0				0	0	0
13.	Farmers visit to KVK	0	0	0	0	0				0	0	0
14.	Diagnostic visits	20	180	20	200	100				180	20	200
15.	Exposure visits	0	0	0	0	0				0	0	0
16.	Ex-trainees Sammelan	1	15	15	30	100				15	15	30
17.	Soil health Camp	4	140	30	170	100				140	30	170
18.	Animal Health Camp	4	60	60	120	100				60	60	120
19.	Agri mobile clinic	0	0	0	0	0				0	0	0
20.	Soil test campaigns	0	0	0	0	0				0	0	0

21.	Farm Science Club Conveners meet	0	0	0	0	0				0	0	0
22.	Self Help Group Conveners meetings	2	0	60	60	100				0	60	60
23.	Mahila Mandals Conveners meetings	0	0	0	0	0				0	0	0
24.	Celebration of important days (specify)	3	70	20	90	100				70	20	90
25.	Sankalp Se Siddhi	0	0	0	0	0				0	0	0
26.	Swatchta Hi Sewa	0	0	0	0	0				0	0	0
27.	Mahila Kisan Diwas	1	0	30	30	0				0	30	30
28.	Any Other (Specify) Meeting With FPOs & FPCs	2	15	0	15					0	15	15
	Total	**102**	**1095**	**380**	**1475**	**1100**	**0**	**0**	**0**	**1080**	**395**	**1475**

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*

OFT 1

Sl no.	Particulars	Details
1	**Season**	Rabi 2025
2	**Title of the OFT**	Assessment of different doses of sulfur and Zn application in sesame under medium upland situation of Purba Bardhaman
3	**Thematic Area**	Improved nutrient management
4	**Problem Diagnosed**	Sub optimal productivity
5	**Important Cause**	Non application of sulfur and Zn leading to declining productivity
6	**Production System**	Jute based production system
7	**Micro farming System**	Cultivation of sesame (Rama/Tilottoma)
8	**Technology for Testing**	Improved nutrient management
9	**Existing Practice**	Non application of sulfur
10	**Hypothesis**	Improved nutrient management with inclusion of sulfur and Zn to result in improved productivity and profitability
11	**Objective(s)**	1. Improve productivity of Sesame
12	**Treatments:**	**Farmers Practice (FP):** 20:40:20 NPK through DAP, MoP and urea (recommended dose) **Technology option-I (TO-I):** Recommended dose + 30 kg sulfur/ha through elemental sulfur **Technology option-II (TO-II):** Recommended dose + 10 kg zinc sulfate/ha + 20 Sulfur/ha through elemental sulfur **Technology option-III (TO-III):** Recommended dose + 30 kg sulfur/ha through elemental sulfur + foliar spray of 0.5% Zn two times at 20 DAS and 40 DAS
13	**Critical Inputs**	Sulfur, Zinc sulfate, Chelated zinc
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 2:

Sl no.	Particulars	Details
1	**Season**	Kharif 2025
2	**Title of the OFT**	Assessment of different green manuring techniques on productivity of rice in rice-rice cropping system under medium upland situation of Purba Bardhaman
3	**Thematic Area**	Integrated Nutrient management
4	**Problem Diagnosed**	Declining 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**	Rice 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 3:

(Modified for 2nd year)

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 cropping 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 + 30 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 4:

(Modified for 2nd year)

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 and potash by checking its leaching loss and improve water holding capacity and use of humic acid
11	**Objective(s)**	To minimize nutrient loss and maximize its utilization.
12	**Treatments:**	**Farmers Practice (FP):** 250: 150:200 kg NPK per ha **Technology option-I (TO-I):** 200:150:200 kg NPK per ha + Hydrogel 5kg/ha **Technology option-II (TO-II):** 200:150:150 kg NPK per ha + Hydrogel 5kg/ha + Humic acid (foliar spray twice) 1.5 ml/l of water
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 and benefit: cost ratio
19	**Source of Technology**	ICAR-IARI

OFT 5:

Sl no.	**Particulars**	**Details**
1	**Season**	Round the year 2025-26/ I yr
2	**Title of the OFT**	**Assessment of efficacy of different probiotics on growth performance of carps**
3	**Thematic Area**	Disease management
4	**Problem Diagnosed**	Low fish yield and more susceptibility to diseases due to non-use of probiotics

5	**Important Cause**	Fish is susceptible to disease incidence due to non-use of probiotics
6	**Production System**	Semi-intensive
7	**Micro farming System**	Pond based, Rainfed
8	**Technology for Testing**	Efficacy of soil and water probiotics on growth of carps
9	**Existing Practice**	Feeding with supplementary feed and no use of probiotics
10	**Hypothesis**	Soil and water quality parameters would be better by application of probiotics, and hence, disease incidence would be minimized, leading to more fish yield.
11	**Objective(s)**	To assess the efficacy of different probiotics on the growth performance of carp
12	**Treatments:**	FP: Non-application of water or soil probiotic TO1: Application of Soil probiotic @ 1 kg/ac/m water area TO2: Application of Water probiotic @ 5 L/ac/m water area TO3: Combination of both Soil & Water probiotic (1 kg/Ac/mt water + 2 L/ac/m water)
13	**Critical Inputs**	Soil and Water probiotics
14	**Unit Size**	0.4 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**	College of Fisheries, OUAT

OFT 6:

Sl no.	**Particulars**	**Details**
1	**Season**	Kharif, 2025/ I yr
2	**Title of the OFT**	Assessment of growth performance of Amur carp, ***Cyprinus carpio haematopterus*** in carp polyculture system
3	**Thematic Area**	Production and management
4	**Problem Diagnosed**	Low fish yield due to the slow growth rate of common carp
5	**Important Cause**	The slow growth rate of common carp affects the average yield from carp polyculture.
6	**Production System**	Semi-intensive
7	**Micro farming System**	Pond based, Rainfed
8	**Technology for Testing**	The growth rate of Amur carp at different proportions

9	**Existing Practice**	Stocking of Catla:Rohu: Mrigal = 3:4:3
10	**Hypothesis**	More yield could be obtained by stocking Amur carp in the culture system
11	**Objective(s)**	To assess the growth performance of Amur carp
12	**Treatments:**	FP: Stocking of Catla:Rohu: Mrigal = 3:4:3 TO1: Stocking of Catla:Rohu:Mrigal: Amur carp= 3:4:2:1 TO2: Stocking of Catla:Rohu:Mrigal: Amur carp= 3:4:1:2 TO3: Stocking of Catla:Rohu:Amur carp= 3:4:3
13	**Critical Inputs**	Fingerlings of Amur carp
14	**Unit Size**	0.4 ha
15	**No of Replications**	7
16	**Unit Cost**	2500
17	**Total Cost**	Rs. 17500
18	**Monitoring Indicator**	Growth Performance and Yield
19	**Source of Technology**	College of Fisheries, OUAT

OFT 7:

S. No.	Particulars	Details
1	**Title of the OFT**	Evaluation of performance of different duck breeds under backyard farming.
2	**Thematic Area**	Poultry management
3	**Problem diagnosed**	Poor egg production in Ducks 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 ducks under backyard management
6	**Technology for Testing**	Indian Runner and kakhicampbell ducks
7	**Existing Practice**	Local breed
8	**Hypothesis**	Adoption of improved duck breeds under backyard management will enhance the growth performance, egg production and return
9	**Objective(s)**	• To assess the performance of improved Duck breeds under backyard farming

10	**Treatments:**	**Farmers' practice:** Local breed **Technology-1 to be assessed:**Indian Runner ducks **Technology-2 to be assessed:** Kakhicampbell ducks
11	**Critical Inputs**	• Breeds of Indian runner and kakhi campbell ducks, Starter feed
12	**Unit Size**	50 ducklings of respective breed in each treatment
13	**No of Replications**	7
14	**Unit Cost**	Rs.5000
15	**Total Cost**	Rs. 35000
16	**Monitoring Indicator**	• Growth performance • Age at 1st laying • Egg production • BC Ratio
17	**Source of Technology**	ICAR-CARI

OFT 8:

S. No.	Particulars	Details
1	**Title of the OFT**	Assessment of probiotics and sodium bicarbonate supplementation in enhancing milk production in cattle
2	**Thematic Area**	Feed and Fodder Technologies
3	**Problem diagnosed**	Low milk yield and less fat content in milk due to improper feeding practices
4	**Production system**	Semi intensive farming
5	**Micro farming system**	
6	**Technology for Testing**	Supplementation of probiotics and sodium bicarbonate
7	**Existing Practice**	Green Fodder + Dry Fodder + Concentrate Feed. No additional supplementation of sodium bicarbonate and probiotics only feeding according to farmers method
8	**Hypothesis**	Sodium bicarbonate acts as rumen buffering supplement and probiotics help in stimulating cellulolytic bacteria in the rumen, increase fiber digestion and flow of microbial protein from rumen which helps in improving milk quality and quantity
9	**Objective(s)**	To assess the efficacy of probiotics and sodium bicarbonate supplementation on milk yield of cattle
10	**Treatments:**	**Farmers' practice:** Green Fodder + Dry Fodder + Concentrate Feed. **Technology-1 to be assessed:** Sodium Bicarbonate @ (30g) + Probiotics @ 15g/day/cow+ Farmers Practice

		Technology-2 to be assessed: Sodium Bicarbonate @ (30g) + Farmers Practice
11	**Critical Inputs**	Probiotics, Sodium Bicarbonate
12	**Unit Size**	1
13	**No of Replications**	7
14	**Unit Cost**	Rs.2000
15	**Total Cost**	Rs. 14000
16	**Monitoring Indicator**	• Milk Yield • Milk Fat • BC Ratio
17	**Source of Technology**	Allahabad University, UP- 2018

OFT 9:

S. No.	Particulars	Details
1	**Season**	- Rabi & Kharif 2025
2	**Title of the OFT**	- Assessment of adoption of single-wheeled Jute Weeder by jute growers
3	**Thematic Area**	- Perception, Adoption and knowledge of single-wheeled Jute Weeder
4	**Problem diagnosed**	-
5	**Important Cause**	- Information outreach, limited engagement
6	**Production system**	- Low and medium land
7	**Micro farming system**	-
8	**Technology for Testing**	- Single Wheeled Jute Weeder developed by ICAR-CRIJAF
9	**Existing Practice**	- Hand weeding
10	**Hypothesis**	
11	**Objective(s)**	- Perception towards single-wheeled Jute Weeder for weeding - Knowledge regarding single-wheeled Jute Weeder - Adoption level of single-wheeled Jute Weeder for weeding in Jute
12	**Treatments:**	**Farmers Practice (FP):**-Hand Weeding **Technology option -I** : weeding in Jute using Nail weeder **Technology option -II :** weeding using single wheeled in Jute
13	**Critical Inputs**	- Jute Nail weeder and single wheeled jute Weeder
14	**Unit Size**	- 17
15	**No of Replications**	-

16	**Unit Cost**	-
17	**Total Cost**	-
18	**Monitoring Indicator**	Perception, Knowledge, and Adoption of single wheeled Jute Weeder
19	**Source of Technology**	ICAR-CRIJAF

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	Cereal System Initiative for South East Asia	

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

A. Natural farming: A hope or Hype?

B. Scientific Advisory Committee

Date of SAC meeting held during 2024	Proposed date during 2025
March, 2024	**7 May 2025**

C. 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

D. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to 31.03.2025	Expected fund requirement (Rs.)
Recurring		
i. Pay & allowance		
ii. Contingency		
iii. TA		
iv. HRD		
Non-recurring (specify)		
i. Works (Road, threshing floor, drying yard, vehicle and implement shed, irrigation system etc.)		
iv. Furniture & Equipment		
v. Vehicle and tractor		
TOTAL		

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