A Transformative Climate Action through Upscaling Climate Resilient Rice and other Agricultural Technologies supported by Evidence-Based Knowledge and Policy in India

(UPSCALE)

Annual work plan

(01 October 2024 to 30September 2025)













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WP1: Interventions for Transformative Change – Climate Resilient Rice Agriculture (CRRA) Technologies (Lead :AAU & OUAT, Colead: NRRI & NIBIO), M02–M48

lead: NRRI & NIBIO), M02-M48				
Tasks to be implemented, lead partners and duration	Oct 2024 –Sep 2025	WorkPlanned/ Expected outputs	Remarks	
Task 1.1: Agronomic, socio-economic, and environmental baseline indicators determined Lead: NIBIO Supporters: All partners Duration: M02–M09	October – June	Comprehensive baseline indicator report	 Relevant base line data/information from the RESILIENCE project, will be used, in addition to targeted base line survey and Focus Group Discussion 	
Task 1.2: Precision-based climate-smart rice technology interventions including precision water management Lead: NRRI Supporters: All Partners Duration M06 –M45	April, 25- Oct, 25x	Assam: 30 lead farmers will be targeted using Direct seeded rice (DSR), SRI etc.	 Districts: Jorhat, Nagaon Total Clusters: 2	
	Dec 2024 – y 2025	NRRI: 250 Farmers will be targeted for implementing DSR, SRI and AWD etc.	• 4-5 clusters in Kendrapada, Jagatsinghpur and Cuttack will be undertaken for upscaling	
	Dec 2024 – April, 2025	OUAT: 100 Farmers will be targeted for conducting demonstration on climate smart rice technology such as stress tolerant varietal interventions under DSR/ Aerobic rice etc.	• 4-5 clusters in Puri,Dhenkanal and Nayagarh	
Task 1.3: Precision-based bio-based soil and nutrient management using Digital tools Lead: NRRI Supporters: AAU, OUAT, NIBIO Duration: M06 –M45	April, 25 - Oct, 25	Assam: 200 farmers will be targeted for the demo of precision soil and nutrient management/ using Leaf colour chart, N app	 Districts: Jorhat, Lakhimpur, Nagaon Total Clusters: 4 	
	Dec 2024 – Sep 2025	NRRI: 200 farmers will be targeted for upscaling of precision nutrient management using Leaf colour chart, riceNxpert	• 4-5 clusters in Kendrapada, Jagatsinghpur and Cuttack will be undertaken for upscaling	

	Dec 2024 –Sep, 2025	OUAT: 150 Farmers will be targeted for demonstration on Precision soil and nutrient management using LCC/N expert/crop manager).	• 4-5 clusters in Puri, Dhenkanal and Nayagarh
Task 1.4: Upscaling climate smart seed systems through public-private partnerships Lead: AAU & OUAT Supporter: NRRI Duration: M03 –M42	Nov, 24- Sep, 25	Assam: 500 farmers will be targeted for strengthening the seed production	 Districts: Jorhat, Lakhimpur, Nagaon Total Clusters: 3
	Dec 2024 – Sep 2025	NRRI: 25 Farmers	• 3 clusters in Kendrapada, Jagatsinghpur and Cuttack will be undertaken for upscaling
	Dec 2024 – Sep,2025	OUAT: 200 Farmers will be involved in smart seed production system with the help of village seed bank	• 3 clusters in Puri ,Dhenkanal and Nayagarh
Task 1.5: Integrated farm systems/crop diversification (rice-legumes/vegetables etc; agroforestry, crop-livestock/fishery based) Lead: AAU & OUAT Supporters: All Partners Duration: M06 –M45	Nov,24- Sep, 25	Assam: 8 clusters (200 farmers) will be targeted for crop diversification and increasing the cropping system in upscaling areas	Districts: Jorhat, Darrang, NagaonTotal Clusters: 8
	Dec 2024 – May 2025	Odisha: NRRI: 150 Farmers will be targeted for upscaling the rice-pulse, rice-vegetable cropping system	• 4-5 clusters in Kendrapada, Jagatsinghpur and Cuttack will be undertaken for upscaling
	Dec 2024 – Sep, 2025	OUAT: 150 Farmers will be targeted for Integrated Farming system including community based mushroom production, vermicomposting, crop diversification, fish farming <i>etc</i> .	• 4-5 clusters in Puri, Dhenkanal and Nayagarh.

Task 1.6: Enhancing Agricultural Sustainability through harnessing Solar Energy on small farms Lead: AAU & OUAT Supporter: NRRI Duration: M06 –M45	Nov, 24- Sep, 25	Assam: solarification in agriculture in Jorhat and Darrang, 32 farmers will be benefitted.	District: Jorhat, DarrangTotal Clusters: 3
	Dec 2024 – Sep 2025	Odisha: NRRI: 50 farmers will be targeted for implementing the solar light traps	• 4 clusters in Kendrapada, Jagatsinghpur and Cuttack will be undertaken for upscaling
	Dec 2024 –Sep, 2025	OUAT: 50 Farmers will be targeted for implementing Solar equipments operated farm equipments.	• 3-4 clusters in Puri, Dhenkanal and nayagarh.
Task 1.7: A pilot study- biodegradable plastic usage in agriculture/pilot testing and assessing environmental performance Lead: NRRI Supporters: All partners Duration: M04 –M39	Nov, 24- Sep, 25	Assam:GHG Estimations for environmental impact study in different systems	 Districts: Jorhat, Tinsukia Total Clusters: 2
	Dec 2024 – Sep 2025	Odisha: NRRI: Trials for mulching using biodegradable plastic to be done at NRRI	• On-station experiment will be conducted at ICAR-NRRI for mulching using biodegradable plastic and subsequently it will be upscaled to farmers field
	Dec, 24- Sep, 25	OUAT: 50 Farmers will be targeted for demonstration on Vegetable production using biodegradable polymulching and trellis net	• 3-4 clusters in Puri, Dhenkanal and Nayagarh.

WP2: Knowledge Management, Capacity Building, Gender, and Youth Integration, (Lead: MSSRF), M01 -M48				
Tasks to be implemented, lead partners and duration	Oct 2024 -Sep 2025	Work Planned/ Expected outputs	Remarks	
Task 2.1: Virtual village knowledge centre - digital network established, farmer connectivity and knowledge exchange promoted Lead: MSSRF Supporters: All partners Duration: M02 –M18	October –September	 8Virtual VKCs (4 in Assam and 4 in Odisha) established in collaboration with existing FPOs/ SHG federations 150 lead farmers (30% women and youth) trained on CRRA technologies demonstrated by partner organizations and train a cadre of plant doctors from KVKs. 	 The virtual VKC hub serves as contact points to transfer technology information, knowledge, and skills to approx. 4500 men and women farmers (35-40% women farmers). Created 8 digital clusters, 4 in Assam and 4 in Odisha Build the capacity on digital skills to 150 lead farmers Captured the data base of each farmer 	
Task 2.2: Institutional capacity building and customized training Lead: MSSRF Supporters: All Partners Duration M03 –M48	October –September	• 20 KVK (Farmer knowledge centre) experts as plant doctors to provide plant health information to 25000 farmers in both the states in the first year	 Plant doctors training of module 1 and 2 conducted for 20 KVKs scientists (10 in Assam and 10 in Odisha) Conducted 20 plant clinic sessions and provided plant health advisories to 6250 farmers (Women: 1560) 	
Task 2.3:Mainstreaming Gender and Youth in upscaling CRRA technologies Lead: MSSRF Supporters: All Partners Duration: M03 –M24	October – May	• Report on Stakeholder Analysis and Gendered Need Assessment	 Conducted 4 gendered need assessment (2 in Assam and 2 in Odisha) Conducted 2 stakeholders' analysis (2 in Assam and 2 in Odisha) Promoting gender- and youth responsive approach to ensure the participation of women and actively in the process. promoting gender and youth-specific content and technologies 	
Task 2.4: Knowledge Exchange and Management Lead: MSSRF Supporters: All Partners Duration: M01 – M48	October –September	 2 Capacity building & facilitation programs to partners in first year 20 IEC materials, contents, one web site and 2 briefs 	 2 programs per site for four sites per year for 50 members in partnership with SAUs and KVKs 4500 farmers (30% of women and youth) received skill and knowledge through the digital platform on CRRA technologies 20 Location specific and demand-based content prepared in local languages 	

WP3: Stakeholder Integration, Upscaling Frameworks, Dissemination, & Exploitation Strategies(Lead: AAU and OUAT), M01- M48			
Tasks to be implemented, lead partners and duration	Oct 2024 – Sep 2025	Work Planned/ Expected outputs	Remarks
Task 3.1:Stakeholder Engagement Lead: AAU and OUAT Supporters: All partners Duration: M02 –M48	October –September	• Two SAC workshops jointly organized (one in Assam and one in Odisha)	• SAC will be reorganized and notified with inclusion of members from Govt. and private institutions required for project work.
Task 3.4: Implementation of the Dissemination Plan Lead: NIBIO Supporters: All Partners Duration: M01 –M48	October – September	• Two stakeholders workshops/ training with FPO & Mission Shakthi Federations per year @ 50 participants	Stakeholder's workshop will disseminate the proven technologies of project to grassroot level.

Note: Task 3.2: Policy dialogue forums organized and inputs to state climate action plans and NDCs co-developed and Task 3.3 (Upscaling frameworks/manuals for 6 CSA interventions co-developed) will start in the second year.

WP4: Management & Coordination Platform (Lead: NIBIO): M01-M48			
Tasks to be implemented, lead partners and duration	Oct 2024 – Sep 2025	Work Planned/ Expected outputs	Remarks
Task 4.1: Monitor Project progress Lead: NIBIO Supporters: All partners Duration: M01–M48	October –September	 Project work plan prepared and approved by project management committee Project progress reports and annual report 	• Quarterly follow ups and implementation
Task 4.2: Manage risks and resolve potential problems Lead: NIBIO Supporters: All partners Duration: M01–M48	October –September	• A Risk Management Plan prepared, and risks resolved	• Follow up the plan
Task 4.3 Project consortium meetings Lead: NIBIO Supporters: All partners Duration: M01–M48	October –September	 Inception workshop to be organized in early 2025 in addition to regular online meetings Project website initiated 	• Project consortium meetings will be conducted in each quarter