



PROJECT IMPLEMENTATION PLAN

Reference No.: 435

Date of Issue	16 July 2024
Project Code	24-RC-23-GE-COE-C-JP01
Title	Workshop on Capacity Development for Soil Carbon Visualization
Timing	1 October 2024–4 October 2024
Hosting Country(ies)	Japan
Venue City(ies)	Tsukuba
Modality	Face-to-face
Implementing Organization(s)	National Agriculture and Food Research Organization and APO Secretariat
Participating Country(ies)	Bangladesh, ROC, India, Indonesia, ROK, Pakistan, Philippines, and Thailand
Overseas Participants	8
Local Participants	Not Applicable
Closing Date	9 August 2024 NPO Pakistan closing date: 30 July 2024
Remarks	The above closing date is only for the nomination of participants. International experts who contributed to the Need and Readiness Assessment Survey for Implementing Climate change Mitigation and Adaptation Technologies in Agriculture (23 RC 25 GE COE C JP01) may participate in the workshop as resource persons.

Objectives	Address the pressing need for enhanced visualization techniques in soil carbon management, strengthen the capacity of national resource persons to understand mechanisms of agricultural soil carbon dynamics and quantify the effects of soil carbon management practices, and equip them with the knowledge and skills necessary to effectively use the Rothamsted Carbon (RothC) model in their regions.
Rationale	As soil carbon plays a significant role in mitigating climate change and sustaining agricultural productivity, the Center of Excellence on Climate-smart Agriculture (COE on CSA) aims to build resilient agricultural systems by enhancing the soil carbon management capabilities of APO members. Effective management of soil carbon requires a comprehensive understanding of visualization tools that enable stakeholders to monitor, analyze, and strategize for its enhancement.
Background	Building upon the results of a need and readiness assessment survey for CSA technologies conducted in 2023, a preparatory study mission by NARO as the COE on CSA for the implementation of a pilot project in Thailand was organized 23–26 April 2024. The mission introduced the soil carbon sequestration visualization tool and carbon credit methodology to Thailand and other APO members involved in the survey. As part of pilot project implementation, it was decided to organize a capacity development workshop in Japan on soil carbon visualization for developing the capacity to examine model performance and determine possible adjustments at the regional level.
Topics	Introduction to soil carbon dynamics and outline of the RothC model; Hands-on sessions on setting up and using the visualization tool; Data analysis and interpretation; and Discussion on integration of the model at the regional level and further R&D needs.
Outcome	Capacity to understand the mechanisms of agricultural soil carbon dynamics and quantify the effects of soil carbon management practices is strengthened and knowledge and skills necessary to effectively apply the RothC model for soil carbon assessment and management at regional level are gained.
Qualifications	Researchers with expertise in CSA technologies and soil carbon management and national resource persons involved in the survey project, with a commitment to pre- and postworkshop data collection, preparation, model testing and validation, gap identification and resolution, and ongoing model improvement.

Please refer to the implementation procedures circulated with this document for further details.



Dr. Indra Pradana Singawinata
Secretary-General