Completed NFRPs

Project title	Biomass and Soil Carbon Sequestration in important plantation species of clonal and seedling origin in Tamil Nadu
Principal Investigator	Dr. A.C. Surya Prabha, Scientist-E
Co-Investigators	Dr. C. Buvaneswaran, Scientist-G
Duration of Project	2020-2022
Objectives	• To quantify carbon stock in biomass of important plantation species of clonal and seedling origin in Tamil Nadu. • To estimate the soil organic carbon stock in important plantation species of clonal and seedling origin in Tamil Nadu. • To compare annual carbon sequestration potential in short, medium and long rotation plantation species.
Summary/Achievements	• Biomass carbon and soil organic carbon stock in important plantation species of clonal and seedling origin in Tamil Nadu was studied. • The total carbon stocks was maximum in >5 years aged Casuarina clonal plantation in the Cauvery delta zone. • SOC stock was maximum in Casuarina clonal plantation of > 5 years in the North-western zone. • The total carbon stocks was maximum under Eucalyptus clonal plantation of >6 years. • The findings explain the ability of clonal plantations of Casuarina and Eucalyptus in accumulating maximum biomass carbon stock and carbon storage potential.
Funding agency	ICFRE