

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-D
Co-Investigators	Dr. C. Buvaneswaran, Scientist-F
Project duration (Start & End)	2020-2022
Objectives	<ul style="list-style-type: none"> • 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.
Progress	<ul style="list-style-type: none"> • Soil samples (164 Nos.) were collected at three different depths <i>i.e.</i>, 0-15, 15-30 and 30-45 cm from plantations of Teak, Casuarina and Melia covering the Western, North-western, Cauvery delta zones. Soil samples (48 Nos.) were also collected from agriculture land use. • For determination of bulk density, soil clods (164 Nos.) were collected at different depths and coarse fragments (>2mm size) was also calculated for each layers based on visual observation of the area occupied by coarse fragments. • Soil samples were analyzed for their physico-chemical properties. • The existing stands of three different ages of a Teak, Casuarina and Melia plantations were selected, and data on girth and height were recorded for all the trees in randomly selected quadrates of 20 x 20 m size.
Funding agency	ICFRE