Completed EAPs

Title of the Project	:	Monitoring of soil organic carbon under agroforestry, natural and conventional farming systems in Tamil Nadu
Principal Investigator	:	Dr. A.C. Surya Prabha, Scientist-E
Co Investigators	:	Dr. C. Buvaneswaran, Scientist-G
Duration of Project	:	2022-2023
Objectives	:	• To monitor the dynamics of organic carbon status in soils under Agroforestry, natural and conventional (Non-agroforestry systems and chemical intensive systems) farming systems in Tamil Nadu. • To assess basic soil parameters *viz*., EC , pH, texture and soil bulk density in the above sites under monitoring. • To study the influence of different farming systems in practice on soil carbon sequestration and their role in climate change mitigation.
Funding agency	:	ISHA Outreach, Coimbatore
Summary/Achievements	:	• To monitor the dynamics of organic carbon status in soils under Agroforestry, natural and conventional (Non-agroforestry systems and chemical intensive systems) farming systems in Tamil Nadu, soil samples (968 nos.) collected from different land uses *viz.* Agroforestry (414 nos.), Non-agroforestry (414 nos.), Natural farming (70 nos.) and Conventional farming (70 nos.) at 30cm depth were analyzed for various physico-chemical properties. • In the agro-forestry systems, the overall soil organic carbon content ranged between 0.06 % and 1.57%. Out of the 414 agroforestry samples, 22.95% of the samples were low, 38.65 % medium and 38.41% were high in organic carbon content. • The results indicated a higher organic carbon content in agro-forestry systems compared to non-agro forestry.