



Research article

Valuing ecosystem services of *Melia dubia* tree plantation in farm lands

V. Karthick¹, M. Ganesh² and R. Sangeetha¹

¹CARDS, Tamil Nadu Agricultural University, Coimbatore-641003, India

²Forest Department, Mudumalai-643211, India

Corresponding author e-mail: karthickecon@gmail.com

Received: 20th April, 2022

Accepted: 9th February, 2023

Abstract

Traditionally, tree plantations have been valued only for the tangible benefits; the intangible benefits provided by the tree plantation such as regulating climate, nutrient cycling, water purification, soil protection, and habitat for birds have either been undervalued or it is difficult to value these services. The present study was conducted to quantify the monetary value of nine years old *Melia dubia* plantation. The values of agroforestry eco-system services were quantified by market cost and alternate cost methods. The results indicated that total economic value provided by the plantation was Rs.6,70,496. If these values could be captured, it will help to conserve the plantation for non-commercial use.

Keywords: Ecosystem services, Market cost, Total economic value, Tree plantation