Project title	Development of Nano-biopesticides for application in forestry
Principal Investigator	Dr. N. Senthilkumar
Co-Investigators	Smt. R. Sumathi
Project duration (Start & End)	3 years: 2019-2022
Objectives	1. Isolation and taxonomic confirmation of endophytic fungi from selected tropical tree species.
	2. Screening and evaluation of endophytic fungi of entomopathogenic significance.
	3. Characterization of chitosan encapsulated (nano-encapsulation)
	endophytic fungi of entomopathogenic significance.
	4. Development and evaluation of nano-biopesticides against
	insect pests of forestry and agriculture importance.
Progress	Isolated 112 endophytic fungi from the leaves of Tectona grandis (26
	trees), Ailanthus excelsa (38 trees), Pterocarpus santalinus (33 trees) and
	Gmelina arborea (33 trees). Endophytic fungi viz., Trichoderma spp.
	Fusarium spp. Aspergillus spp. Cladosporium spp. Colletotrichum spp.
	Curvilaria mucor spp. and Mucor spp. were confirmed in all tree species
	selected for the study. Endophytic fungi viz, Cladosporium sp.
	Colletotrichum sp. and Curvilaria sp. were found effective against the
	Ailanthus defoliator Eligma narcissus.
Funding agency	ICFRE