Title	:	Enhancing the Productivity and Active Ingredients of Valuable Medicinal Plants
		Salacia oblonga and Hemidesmus indicus
Principal Investigators	:	P. Kathirvel, IFS, DCF
Co-Investigator	:	Dr. K. Panneer Selvam
Duration	:	4 Years (2018 to 2021)
Objectives	:	a. To assemble and evaluate different ecotypes for higher productivity and active
		ingredients.
		b. To standardize the propagation techniques and early rooting pattern for mass
		production and commercial cultivation.
		c. To standardize cultivation packages and post harvesting techniques for higher
		productivity and active ingredients for better marketing.
Funding Agency		Tamil Nadu State Planning Commission
Summary/Achievements	:	The present investigation on enhancing the productivity and active ingredients of
		valuable medicinal plants Salacia oblonga and Hemidesmus indicus was carried out
		at the Institute of Forest Genetics and Tree Breeding, Coimbatore, Tamil Nadu.
		Plant parts of the two species were collected and the quantification of the available
		phytochemicals was achieved.
		Plant propagation studies were mainly aimed to achieve through seeds and stem
		cuttings. Matured fruits of Salacia oblonga were collected from natural populations
		from Therkumalai near Kuttralam, Thenkasi District. The seeds of Hemidesmus
		indicus were not available and hence only cuttings were used for further study.
		There were marked variation in the growth of cuttings of Hemidesmus indicusdue to
		site of collection and potting. It was found that the cuttings from the source
		Pachamalai were superior in growth characteristics over the other sources and those
		from Karumandurai exhibited the poorest performance. Hence, it can be concluded
		that large scale multiplication of the species can be achieved in a better way by
		using cuttings from Pachamalai grown in a medium of soil, sand and vermicompost
		at a ratio of 2:1:1.
		The plantation raised through semi hard wood cutting of Salacia oblanga is showing
		better growth in respect of average shoot length and branches than the seed origin in
		the field conditions. The growth of the seedlings of Hemidesmus indicus collected
		from five different populations did not show any significant difference between
		them.