

Project title	Biocolourant: Bioprospecting of selected accessions of Red tamarind as ecofriendly and protective natural dye in textiles/ foods
Principal Investigator	Dr. N. Senthilkumar
Co-Investigators	Dr. S. Murugesan Smt. R. Sumathi Shri A. Mayavel
Project duration (Start & End)	3 years: 2016-2019
Objectives	<ul style="list-style-type: none"> <li>• Collection, extraction, evaluation and characterization of anthocyanin from the unripe fruits of selected accessions in different growth stages.</li> <li>• Purification and application and testing on textile and some of the food products.</li> <li>• Functional finishing process to develop, produce cost effective range of new products.</li> <li>• Stability studies of the extract in various end products and screening for antioxidant activity.</li> </ul>
<b>Summary/Achievements</b>	Natural pigment from Red tamarind, <i>Tamarindus indica</i> var. Rhodocarpa was extracted from unripe fruit pulp and analyzed for its potentiality to use as a natural colourant in textile industry. Cyanidin, Meahidin, delphine are the anthocyanin pigments identified in the extract made from unripen fruit pulp of few promising accessions of red tamarind. The extract was tested for its dyeing potential on fabric/textile and gave pink shade to the fabric with tinctorial strength. Hence, pigment extracted from red tamarind may be considered as a potential natural colorant for use textile industry.
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