

Title	:	Selection and screening of germplasm of <i>Acacia nilotica</i> L. to improve Productivity in Tamil Nadu. (IFGTB/NFRP-136/2016-2022)
Principal Investigator	:	Dr. K. Panneer Selvam
Co-Investigators	:	Dr.D.RajaSuguna Sekar Dr.A.Rajasekaran Dr.A.Vijayaragahavan
Duration	:	April 2016- March 2021 (Extension up to March 2022)
Objectives	:	1. To survey, identify divergent populations and CPTs of <i>Acacia nilotica</i> and to establish germplasm bank. 2. To test the progenies of the selected CPTs in different agro climatic zones.
Funding Agency	:	ICFRE

Summary

Acacia nilotica is a short rotation fuel wood species. This project has been undertaken to identify superior seed source and understanding the variability of *A. nilotica* with reference to growth and tree form in different agroclimatic zones of Tamil Nadu. Field survey were undertaken to Coimbatore, Erode, Thirupur, Salem, Dharmapuri, Namakal, Krishnagiri, Trichy, Karur, Perambalur, Ariyallur, Thanjavur, Dindugal, Tiruvannamalai, Vellore, Kanchipuram, Vizhupuram, Sivagangai, Thoothukudi, Ramanathapuram, Tirunelveli, Madurai,Theni, Cuddalur, Vellur and Viruthunagar districts in Tamil Nadu for selection of CPTs of *A. nilotica* on different tank beds. A total of 50 CPTs were selected and the morphometric data and GPS reading were recorded. Seed accession of 50 CPTs of different agroclimatic zones were raised to 150 seedlings in each CPT in the nursery and recorded all germination data. Established 3 progeny trials at Manakudi in Tirunelveli district, at Thuvarangkurichi in Trichy district and at Ramco Cement Limited land in Ariyalur district of Tamil Nadu.