Technology	2. Large scale Screening for P Oxidative Stress Tolerance in sugarcane, *Erianthus sp* and *S. spontaneum*
Year	**2024**
Features	• Novel screening methodology for commercial hybrids of sugarcane and wild species germplasm was developed for oxidative stress tolerance. • Oxidative stress treatment for the sugarcane is 500 ppm of 30 % hydrogen peroxide (H_2O_2) for 24 hrs • For species, *S.spontaneum* and genera *Erianthus* sp., the oxidative stress treatment is for 48 hrs with >500 ppm H_2O_2 • Traits for screening - Cell membrane injury (%), leaf temperature, SPAD value, chlorophyll fluorescence (Fm/Fv)
Use of the Technology	• New technology for screening wild species of *Saccharum* and the allied genera *Erianthus* for oxidative stress tolerance
Impact	• **For the selection and breeding of climate resilient sugarcane varieties**
Developers	**R. Manimekalai, R. Gomathi and A. Selvi**