

STV Voting System for MLC Elections

CH. Lakshmi Kumari¹, T. Venkatesh², G. Harika³

Assistant Professor, Department of IT

B.Tech Students, Department of IT ^{2,3}

Mahatma Gandhi Institute of Technology, Hyderabad, India

Abstract: *This document provides a structured overview for authors developing projects aimed at modernizing electoral systems using emerging technologies. Specifically, it focuses on the design and implementation of an IoT-enabled STV (Single Transferable Vote) voting system tailored for MLC (Member of Legislative Council) elections. The authors must follow the outlined methodology and system design protocols to ensure transparency, efficiency, and security in the electronic voting process. This document serves both as a project guide and as a template into which specific system architecture, logic flow, and user interaction modules can be integrated. The proposed solution incorporates Arduino hardware, Python-based vote processing, and an intuitive button-based interface to enable voters to rank candidates by preference, ensuring accurate vote transfer and fair results*

Keywords: Single Transferable Vote (STV), MLC Elections, IoT-based Voting System, Arduino, Electronic Voting, Preference Ranking

