

Project Design Phase-I

Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID39715
Project Name	Signs with Smart Connectivity for Better Road Safety
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Road Traffic and Accident is due to use of Static Signboards and Poor Monitoring. It leading Heavy Traffic Burdens, Injuries, etc.
2.	Idea / Solution description	Static TIP Signboards replaced and Smart Signboards used. Speed Limit from web app by weather API. IOT it's connected to Open Weather MAP.
3.	Novelty / Uniqueness	Sign According to Scenarios. Diversion Signs also Displayed. Weather Monitoring.
4.	Social Impact / Customer Satisfaction	Road safety is essential to avoid accidents, the purposes of making sign with smart connectivity road safety to establish safe journey among the people. Confusing sign lead to traffic and accident.
5.	Business Model (Revenue Model)	Wastage of circuits is avoided and less maintains weather can damage the stick board, replace it by Smart Signboards
6.	Scalability of the Solution	To replace the static signboards, smart connected sign boards are used. These smart connected sign boards get the speed limitations from a web app using weather API and update automatically. Based on the weather changes the speed may increase or decrease. Based on the traffic and fatal situations the diversion signs are displayed. Guide (Schools), Warning and Service (Hospitals, Restaurant) signs are also displayed accordingly. Different modes of operations can be selected with the help of buttons.