Project Design Phase-I
Proposed Solution

Date	09 October 2022
Team ID	PNT2022TMID21273
Project Name	Project - 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)	To develop dynamic , independent problem-solving and an innovative smart sign board to solve the biggest challenges in road safety in the today's changing environment in terms of weather, population and technology.
2.	Idea / Solution description	Our proposed idea is to build a smart sign board with inbuild IoT devices that are connected to the internet and uses the cloud technology for processing and giving dynamic signs in the smart sign board based on the current environment situation.
3.	Novelty / Uniqueness	Our design is dynamic, connected to the internet so it can use the cloud technology and ML for providing better results,collects and stores data for better improvement in safety,each sign boards can independently change the signs and very reactive to the changes,power efficient by using sleep modes,provides extra features like diversion system and traffic signals coordination.
4.	Social Impact / Customer Satisfaction	- Improved road Safety - Saves life - Saves time by proving better traffic diversion.
5.	Business Model (Revenue Model)	- Selling Products and services. - Revenue from the National and state highways for providing better road safety . - By displaying advertisements below the sign boards. - Revenue from the government for collecting fine amounts violating laws.
6.	Scalability of the Solution	- By increasing the number of sign boards and cloud capacity for increasing the efficiency. - A signboard can be useful to atleast 50 vehicles at a time and can be expanded.