Project Design Phase - I
Proposed Solution

Date	2.11. 2022
Team ID	PNT2022TMID17036
Project Name	Project - Signs with smart connectivity for better road safety
Maximum Marks	2 Marks

Signs with smart connectivity for better road safety :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To replace the static signboards, smart connected sign boards are used. These smart connected sign boards get the speed limitation 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.
2.	Idea / Solution description	By preparing a smart signs using IOT instead of regular signs hung on the road. Smart signs are built with IOT and LED are used.
3.	Novelty / Uniqueness	Since LED's are used which is visible from afar. The smart signs consists of temperature,humidity,wind speed. These information are received from weather monitoring app. It also gives information about nearby places such as hospitals,schools etc., So that the users can decide their speeding according to that information.

4.	Social Impact / Customer Satisfaction	Diversion reasons will be displayed If there is no traffic, pedestrians can cross the street without waiting. Customer can reach the destination before the expected time
5.	Business Model (Revenue Model)	By executing these for commoners by the government, it is a great initiative in creating a awareness among the people. A separate budget can be allotted for this by the government, which paves a way for a safer environment.
6.	Scalability of the Solution	It has greater chance in reducing the risk for the people as it is more visible than the normal signs, which saves a lot of lives at stake.