

**Project Design Phase-I**  
**Proposed Solution Template**

Date	14-10-2022
Team ID	PNT2022TMID13653
Project Name	Signs with Smart Connectivity for Better Road Safety
Maximum marks	2 Marks

**Proposed Solution Template:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	While a person driving a vehicle, He/she might get frightened about accidents due to the unexpected road conditions that include Pits and holes in the roads, Construction works on the roads, Bare guards etc.,
2.	Idea / Solution description	Vehicles can be attached with an plug-in devices that contain some IoT sensors like temperature, humidity, PIR and radar sensors to intimate the Road's condition to the vehicle by providing digital signs.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>○ The signals can be changed dynamically and there will be no need of any boards in the roads.</li> <li>○ Along with the digital signs it can also sense the humidity and inform the driver about the speed level.</li> <li>○ Pits and Holes on the roads can be monitored and can guide the user by providing right way.</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>○ It enhances the use of smart cars.</li> <li>○ Stress – free traveling in smart roads.</li> <li>○ Navigates through roads in a better way.</li> </ul>
5.	Business Model (Revenue Model)	The plug-in device can be attached in the car. so, the revenue will be based on the number of devices sold out.
6.	Scalability of the Solution	Due to our proposed system, the Road safety can be enhanced to a greater level since it has the ability to sense the weather condition, Road condition and vehicle detection.