

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID19266
Project Name	Signs with Smart Connectivity for Better Road Safety
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The real issue is that motorists cannot determine whether the road conditions are safe for travel or not. Therefore, there will be a need for guide data to ensure safety and to prevent inconveniences when travelling to the location.
2.	Idea / Solution description	The solution to this issue is introducing the IR and GPRS Modules Traffic-sensing camera and sensor intensity even in shadowy places. Indicating weather on the same sign boards for drivers in areas where the weather is unpredictable and replacing the painted, man-made signs with digital ones that are more visible than the current ones.
3.	Novelty / Uniqueness	The location of the display board is adjusted to the traffic signal area, and voice indications are put nearby. As soon as it detects surrounding vehicles, it will alert the general public to any potential traffic hazards.
4.	Social Impact / Customer Satisfaction	If people are informed about traffic indicators, They are unaware that it digitally displays signs to avoid. Based on the accidents and weather indicators IOT is used to prevent accidents and primarily benefits two-wheeler riders.
5.	Business Model (Revenue Model)	Both public and commercial sectors can use the systems, which generates considerable money.
6.	Scalability of the Solution	It improves the quality of life for both drivers and passengers. By including more features, the product may be scaled to generate more revenue.