

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

Date	17 October 2022
Team ID	PNT2022TMID21781
Project Name	Signs with Smart Connectivity for Better Road Safety

**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)	<ul style="list-style-type: none"><li>Replacement of static sign board to smart digital boards and to notify the riders ahead in case of any accidents.</li></ul>
2.	Idea / Solution description	<ul style="list-style-type: none"><li>This system can be implemented by extracting weather data from Open Weather map using API's.</li><li>Through the extracted data from the web app the sign boards get the speed limitations and update automatically.</li><li>In addition to this, due to the occurrence of the sudden accidents people were suffered by heavy traffic congestion and this can be solved by sending the accident information to the cloud and that information is reflected through the traffic signals and sign boards.</li><li>This can be done by either the web application or by the buttons that are predefined with separate symbols.</li></ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"><li>Digital Sign board for all applications that uses both buttons and web service for updation.</li><li>It notifies the riders ahead in case of accidents so that people can opt better ways to reach their destination.</li></ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>Ambulance with patient, School students and working people can take alternative paths to reach their destination which is entirely time saving.</li><li>Diversion reasons will be displayed through the sign boards and traffic signals.</li></ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"><li>This product is aimed to be free of cost to the public, but the revenue will be generated by selling this product to the government at a low cost, so there will</li></ul>

		be less accidents and the public will be aware of the discrepancies or accidents in the particular road.
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>• Slight modification in the programming of the existing product and website application has to be updated with the additional functionality for further updation.</li> <li>• Easy maintenance and efficient system.</li> </ul>