Project Design Phase-I
Proposed Solution Template

Date	20 September 2022
Team ID	PNT2022TMID04551
Project Name	Project - Signs with Smart Connectivityfor 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 tobe solved)	- In static signboard ,the road sign and the speed limits are stated but they cannot be changed,but ifthey are digitalized by using API app, they can be changed accordingly due to some cases like accidents ,heavy traffic,weather. - Signs with smart connectivity for better road safety is designed for speed control,safety improvements and indicate theweather update.
2.	Idea / Solution description	- The weather details are obtained from the API. app. Using these details, the speed limit will be updated automatically in accordance with the weather conditions.If there is rainfall thenthe roads will be slippery ,so thesigns will show reduced speed limit in order to avoid accidents. - In order to avoid heavy trafficroutes, the drivers will be intimated in advance so that theycan diversion and change the route.

3.	Novelty / Uniqueness	● The unique light enhancing and anti glare lens frameworks offermaximum visibility even under very low light conditions. ● It gives more detailed informationto the road drivers about the traffic,accidents,weather,etc.., ● It reduces the collision risks dueto heavy traffic and results in

		reduced air pollution which is caused by the CO2 emission byvehicles.
4.	Social Impact / CustomerSatisfaction	● Alternate routes will be displayedif there is heavy traffic, so the customer can reach the destination before the expected time. ● Smart signs can assist in optimizing traffic flow and can create a sustainable environmentwithin the cities.
5.	Business Model (Revenue Model)	● It can be used in cities in where heavy traffic occurs frequently and accident zones in order to avoid road blocks. ● Selling this product to the government at a low cost, so there will be less accidents and the public will be aware of the traffic or accidents in the particular road.
6.	Scalability of the Solution	● Smart signs adapts to changing traffic conditions in real time. ● In the future, if any update is required either on the hardwareor software side, it can be easily implemented. ● It can be used along with driverless cars in the future.