**Project Design Phase-I**

**Proposed Solution**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID43270 |
| Project Name | Signs with smart connectivity for better road safety |
| Maximum Marks | 2 Marks |

**Proposed Solution :**

Project team shall fill the following information in proposed solution .

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Providing timely maintenance for the network of bridges, roads and highways of a country is a challenging task, and often the mismanagement of transportation infrastructure leads to collapsed bridges, potholes in roads, unwanted congestion and fatalities. |
|  | Idea / Solution description | IoT is already helping make our roads much safer. But this is just the beginning. The true power of IoT in ensuring safe driving continues to be unleashed as cars move toward becoming fully autonomous and start interacting with their environment and making decisions on their own. |
|  | Novelty / Uniqueness | Controlling traffic and keeping roads clear can help immensely in reducing accidents and incidents that occur because of poor road and weather conditions. Driving safety, in particular, is dependent on being able to monitor road surfaces and identify road hazards. |
|  | Social Impact / Customer Satisfaction | “Road sensors are going to be one of the most crucial developments that will take place in the world of transportation with the introduction of the Internet of Things technology,” says Ludovic Broquereau, VP of marketing and business development at HIKOB |
|  | Business Model (Revenue Model) | Road sensors can be easily embedded under the roads so that they can effectively measure the changes in temperature, traffic volume and humidity, among other weather and traffic constraints.” |
|  | Scalability of the Solution | The data collected by the sensors is gathered in servers, where it is analyzed to provide concerned authorities with real-time information about traffic and road conditions in the IoT-equipped regions. |