

ProjectDesignPhase-I
ProposedSolutionTemplate

Date	27.10.2022
TeamID	PNT2022TMID31035
ProjectName	IoT-SignswithSmart Connectivityfor BetterRoad Safety
MaximumMarks	2 Marks

ProposedSolutionTemplate:

Projectteamshall fill thefollowing informationinproposedsolutiontemplate.

S.No.	Parameter	Description
1.	ProblemStatement (Problemto be solved)	Inpresent Systems theroadsignsandthespeed limitsareStatic.Buttheroadsigns canbe changedinsomecases.Wecanconsider some caseswhentherearesomeroaddiversionsdue toheavytrafficor duetoaccidentsthenwecan changetheroadsignsaccordinglyifthey are digitalized
2.	Idea/ Solutiondescription	Theultrasonicsensors senses fromwherethe vehicles arecoming andaccordinglythe controller sends signalsandaccordingly buzzerswill ringandthelamps will glowto indicatethatvehiclesare comingfromtheother sides andthus saving thevehiclesfrommeeting withanaccident.
3.	Novelty/Uniqueness	Smartroadtechnologycan assistinoptimizing trafficflowandmanaging roadconditions, creatingamoresustainableenvironment within cities.
4.	Social Impact/CustomerSatisfaction	Theincreasedqualityoflifeis alsofoundto be closelyrelatedwith anincreasedcustomer satisfactionandoverall well-being of the citizensresiding intheSmart City. Although SmartCityfeaturesandservices maybe analyzedfromtheperspectivesofhuman, technology,andinstitutional factors,anissueof improvingthequalityoflifemay be designated

		as one of the most important topic in the area
5.	Business Model (Revenue Model)	The portable smart road is a mobile road that can be installed on roads that had crowd accidents in the past or roads with a high probability of crowd. The product is designed to predict the intended crowd based on sensors fixed at certain points along the road path.
6.	Scalability of the Solution	Using new technology such as smart traffic light and traffic control systems, artificial intelligence the use of telematics and automotive technology can contribute to prevent and reduce the number of road related accidents and improve road safety.