PROJECT DESIGN PHASE-1

[Proposed Solution]

S.NO	PARAMETER	DESCRIPTION
1.	Problem Statement (Problem to be solved)	• Over speeding in highways. • Heavy **traffic awareness**. • Parked vehicles at no parking areas.
2.	Idea / Solution description	• Usage of IOT devices in **Sign boards** to indicate heavy traffic beforehand. • Availability of **SOS and GPS** connectivity at selective sign boards. • Indication of parked cars in no parking area using motion detectors in signs.
3.	Novelty / Uniqueness	• Using **IOT**, makes it easier to communicate within devices such that we would have less involvement of humans. • Usage of **Arduino-uno** which is an open-source programmable board.
4.	Social Impact / Customer Satisfaction	• This would help customers to be aware of traffic beforehand so that they could use another route. • Helpful for police to observe over speeding in highways and **to detect** vehicles parked in a No-parking area.
5.	Business Model (Revenue Model)	• Arduino is flexible, easy to program and inexpensive. • **PIR** sensor is used to detect high speed and motion, **RF** transmitter is **SOS** device. • **GPS** module using google maps is easily accessible.
6.	Scalability of the Solution	• Works **90%** of all times. • Helps in **abiding rules** to ensure road safety. • Very effective in case of **emergency**.