INNOVATION OF TRAFFIC MANAGEMENT SYSTEM

**Our traffic management plan shall address the following:**

**1.**Hours of Work

2.Duration of Works

3.Project Details

4.TrafficManagement System

5.TrafficManagement

6.Layout/Drawing

7.Phasing of Works

8.TrafficManagement Signage

9.Speed Limits

10.Road Level

11.DesignParameters

12.Site Access & Egress

13.Communication and Emergency Procedure

**Some methods of traffic control are:**

* Two-Way Traffic
* Give & Take
* Priority
* Stop & Go
* Temporary Traffic Signals
* All Stop & Convoy
* Road Closure
* Lane Closures
* Semi-Static Operation
* Mobile Lane Closure

**Our Traffic management plan may include details of:**

* The desired flow of pedestrian and vehicle movements
* The expected frequency of interaction of vehicles and pedestrians
* Illustrations of the layout of barriers, walkways, signs and general arrangements to Warn and guide traffic around, past, or through a work site or temporary hazard
* How short term, mobile work and complex traffic situations will be managed.

**Our traffic management plan could also set out:**

* Responsibilities of people managing traffic in the workplace
* Responsibilities of people expected to interact with traffic in the workplace, and instructions or procedures for controlling traffic including in an emergency.

**WAYS TO CONTROL TRAFFIC RISKS:**

* Barriers or guardrails at building entrances and exits to stop pedestrians walking in front of vehicles.
* High impact traffic control barriers
* Temporary physical barriers
* Separate, clearly marked footpaths or walkways e.g. using lines painted on the Ground or different coloured surfacing .

**General components of our traffic management system:**

Data collection : That’s the part where hardware devices like sensors, cameras, GPS trackers, etc., are called into action.

Data transmission.

Data analysis.

Data conversion into intelligent information.

Data transmission to end-user.

**Hardware Requirement:**

* + - Internet Connection
    - 1 GB/2GB RAM
    - 8 GB Disk
    - Above 1.2 GHz Processor
    - Camera
    - Magnetic sensor

**Software Requirement:**

OS – Windows

Language – python

* We use wokwi and Thinkspeaks web server.
* Our innovation to perform is Vehicle to Vehicle Communication.