

# VSDS Vehicle Speed Detection System



Based on  
**ATMS 2021  
 Manual**

## VSDS OVERVIEW:

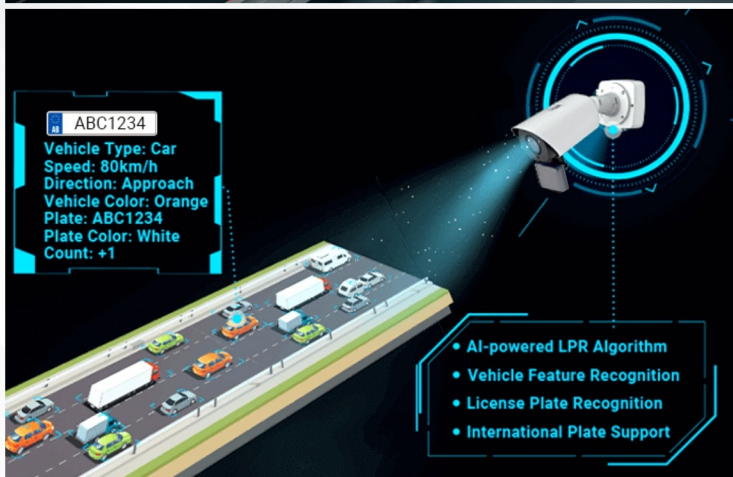
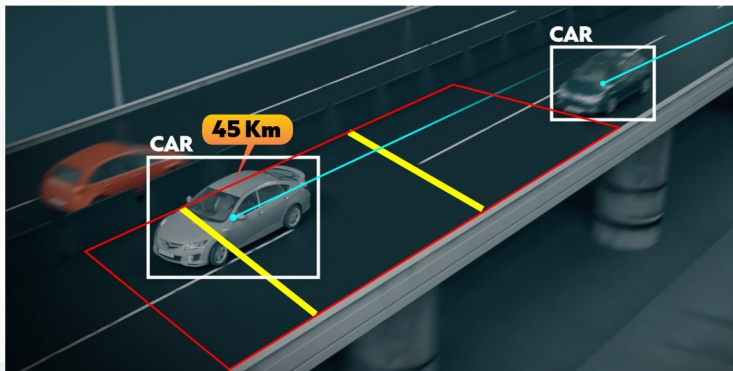
The Vehicle Speed Detection System (VSDS) consists of an ANPR camera, an LED display, along with a 3D speed radar sensor. It is a comprehensive package compliant with the ATMS 2021 manual and operates in real-time. This project is exceptionally exclusive, boasting high accuracy pared to products from other manufacturers.

## How VSDS works?

The ANPR camera captures license plate information, while the 3D speed radar sensor measures vehicle speeds accurately. The collected data is then displayed on the LED screen in real-time.

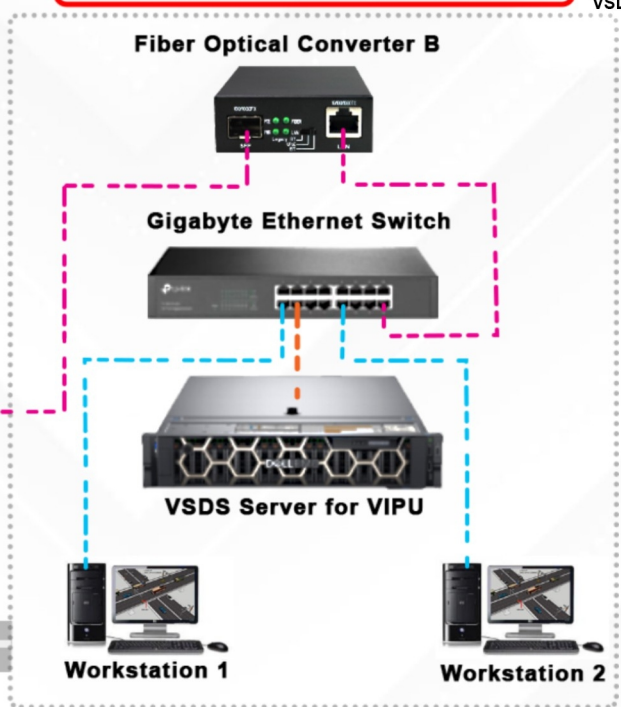
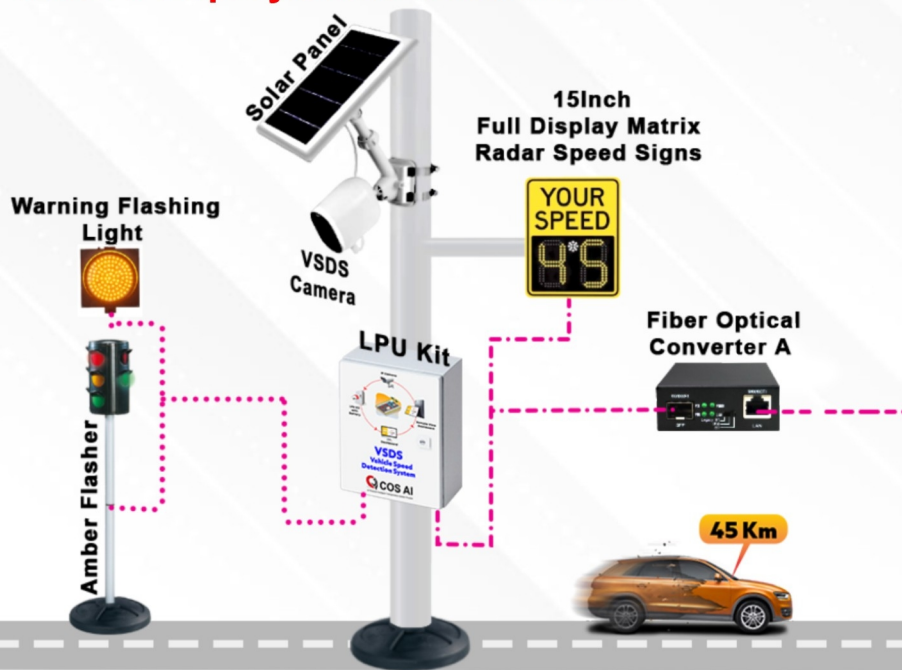
## Key Features:

- ★ **Maximum Speed Limit:** Capable of detecting speeds up to 160 km/h, ensuring comprehensive speed monitoring.
- ★ **High-Definition Image Capture:** Provides clear and detailed images for accurate identification and evidence.
- ★ **Automatic Challan Generation:** Automates the process of issuing traffic violation fines, improving efficiency and accuracy.
- ★ **Customized Reporting:** Offers a fully customizable reporting system to tailor reports to specific business needs and requirements.
- ★ **Integration with e-Challan Software:** Seamlessly integrates with e-Challan software for streamlined enforcement and record-keeping.



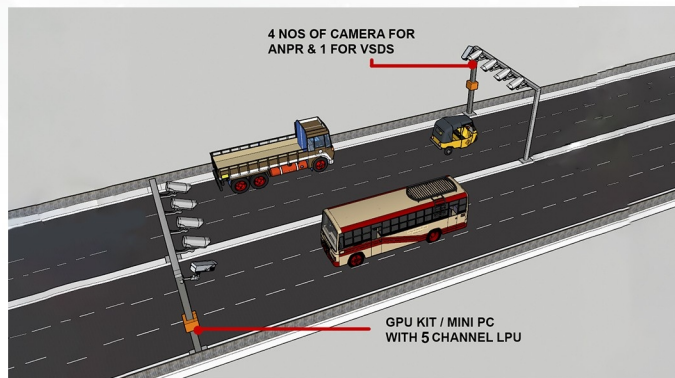
# COS AI Deployment Architecture

## TOLL MANAGEMENT CENTRE

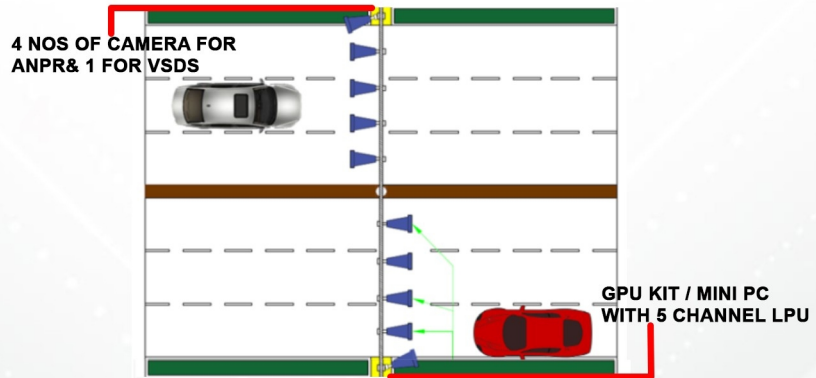


### COS AI 's Indicative VSDS Components

Sl.No	VSDS Components	Qty.	Unit	Cost per unit + Tax	Remarks
1	COS AI VSDS Software	1	No.	Contact	COS AI
2	Hardware of COS AI LPU Kit	1	No.	Contact	COS AI
3	ANPR – Radar based speed detection IP Camera 2MP / 5MP	1	No.	Contact	Client
4	Lighting Pole for 8.0m Pole with 1m Arm @ 5.5m	2	No.	Contact	Client
5	PoE Switch TP Link / HIKVISION	1	No.	Contact	COS AI
6	Internet Dongle	1	No.	Contact	COS AI
7	FIBER Cable / Media Converter for internal connectivity of camera and other network elements	1	No.	Contact	Client
8	LED Focus Lamp 1000W / 500W as per site condition	2	Nos.	Contact	Client
9	To viewing the real time scenario - Desktop (Specs.: i5/ 8GB RAM / 512 GB SSD)	1	No.	Contact	Client
10	15 Inch Full Display Matrix - Radar Speed Signs	1	No.	Contact	Client



3D - VIEW  
VSDS/ANPR CAMERA @ EVERY 10 KMS



PLAN  
VSDS/ANPR CAMERA @ EVERY 10 KMS

### Terms & Conditions

- ★ The client is responsible for covering the costs associated with Uninterrupted Power Supply, lighting, Internet Broadband line, Network Cabling, Camera mounting, and any other miscellaneous works.
- ★ Camera installations must be positioned at a minimum height of 18 feet above the surface.
- ★ Any expenses related to establishing connectivity from the camera pole to the toll center, including fiber connectivity, are the responsibility of the client.
- ★ Two lights will be installed, necessitating the placement of two poles in front of the camera pole. A minimum space of 20 meters between each pole is required on both LHS and RHS. Additionally, a third light will be installed near the camera with a road-focused beam.



**COS AI** – AI Powered Intelligent Transportation System Provider

Please visit other similar ATMS products:

- VIDS - Based on ATMS 2021 Manual..
- ATCC+ANPR - Premium product both ATCC & ANPR analytics done in single unit.
- We also provide customized AI-based services in ITS for our clients.

Please contact us or visit [www.cosai.in](http://www.cosai.in) for more information.

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