

ATCC - TOLL Automatic Traffic Counter and Classifier



Exclusively
for
Toll Managers

Why AI based ATCC for Toll Plaza?

AI-powered traffic counting and classification systems outperform traditional sensors, providing precise real-time data. They seamlessly integrate with toll plaza management software, offering cost-effective solutions and improved operational efficiency with minimal maintenance.

Why choose COS AI ATCC?

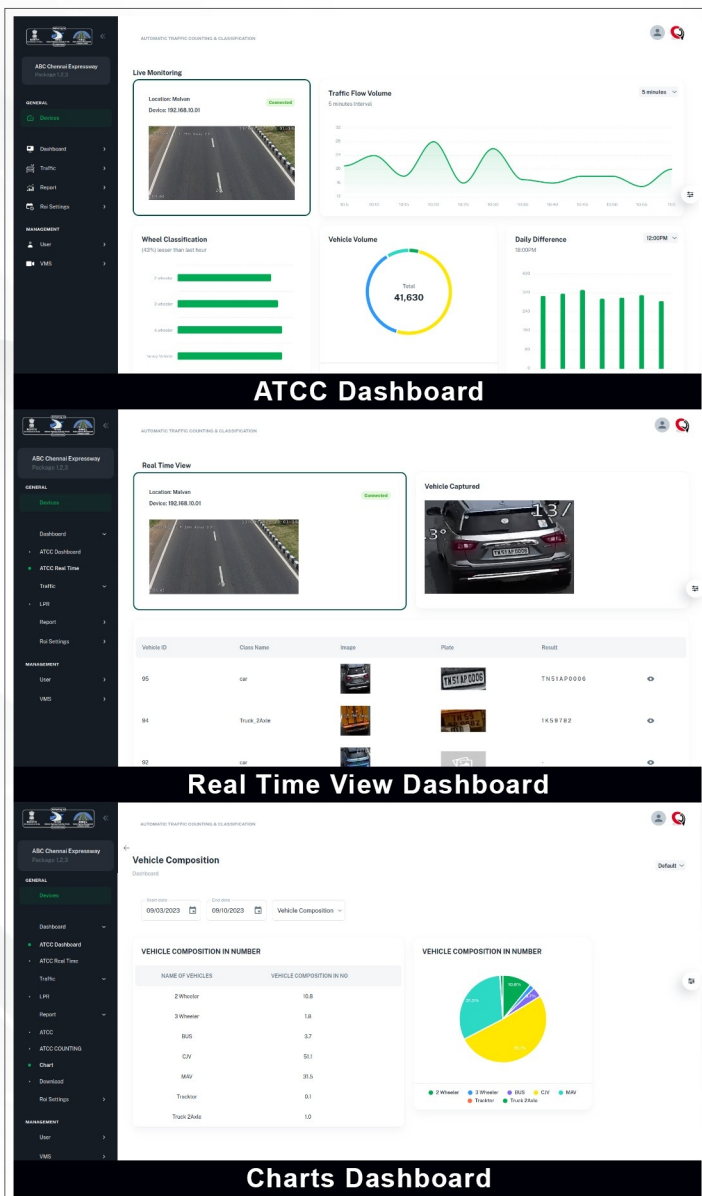
COS AI provides customized solutions for toll plazas, with adaptable hardware and software tailored to diverse vehicle types and axle counts. Its user-friendly interface integrates seamlessly with existing systems, enhancing toll plaza management efficiency.

How ATCC works?

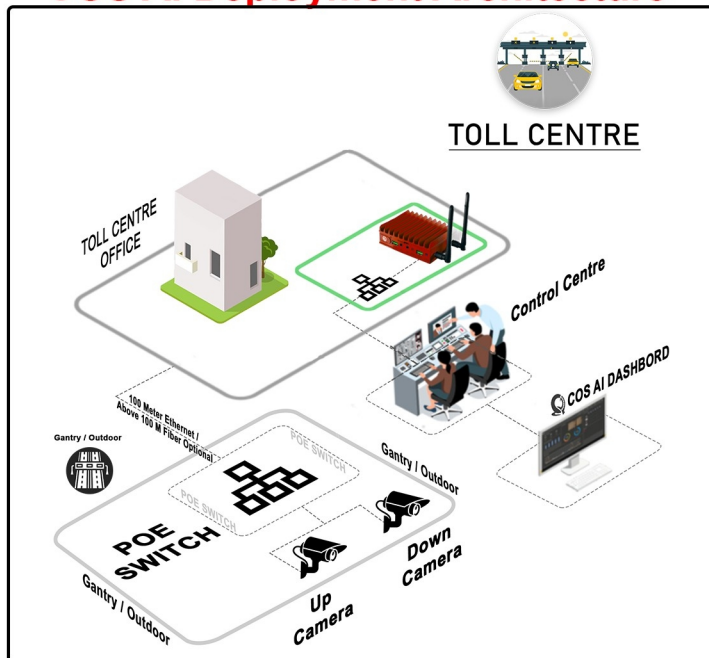
The camera on the gantry near the toll plaza transmits video through optical cables, and with the assistance of COS AI software, an LPU kit in the toll office performs analytics. The real-time traffic data is then showcased on a separately provided computer interface.

Key Features:

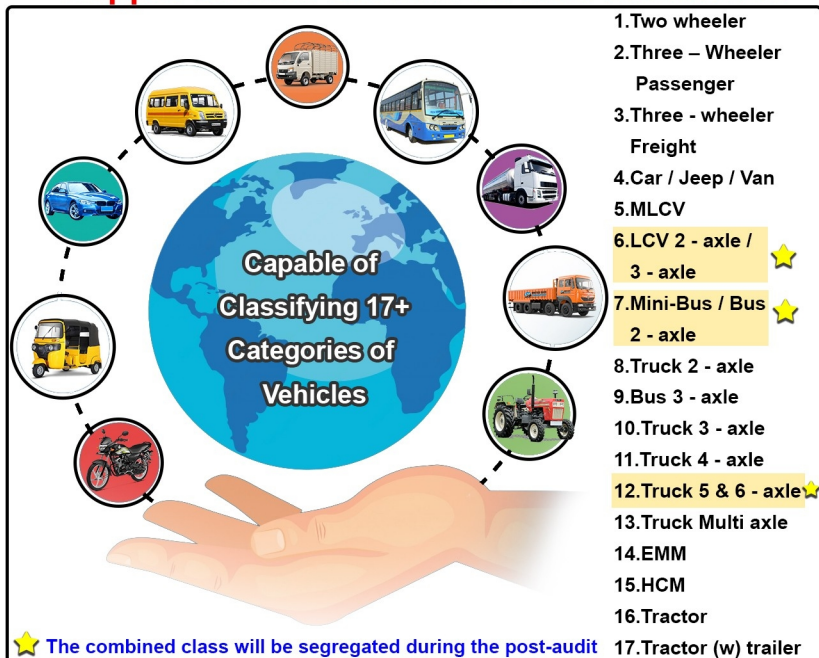
- ★ Detects more than 17 classes, covering most of the NHAI Mapper Vehicle Classes (20 classes).
- ★ Achieves 95% classification accuracy and 98% counting accuracy.
- ★ Validation of the toll plaza traffic is done using other installed methods.
- ★ Flexible post-editing options and an excellent report format for comprehensive toll management.



COS AI Deployment Architecture

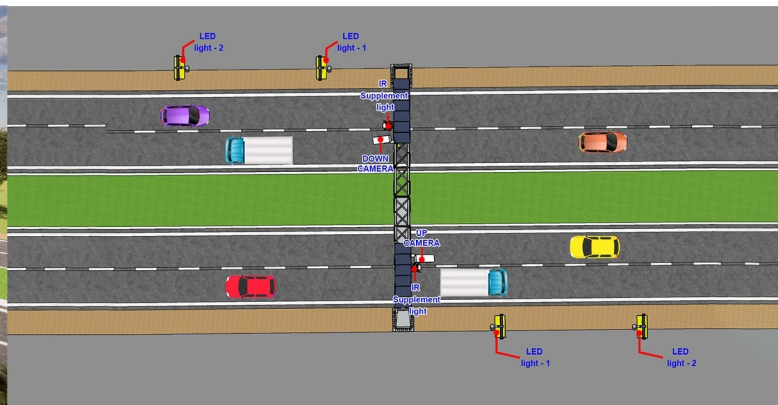


Mapper Vehicle Classes vs COS AI Classes



COS AI 's Indicative ATCC Toll Components (For 4 / 6 lane Highway section)

Sl.No	ATCC Toll Components	Qty.	Unit	Cost per unit + Tax	Remarks
1	COS AI ATCC Toll Software	1	No.	Contact	COS AI
2	Hardware of COS AI LPU Kit	2	Nos.	Contact	COS AI
3	IP Camera 2MP / 5MP - HIKVISION / DAHUA	2	Nos.	Contact	Client
4	IR Supplement Light for 2 Cameras	2	Nos.	Contact	Client
5	Lighting Pole for 8.0m Pole with 1m Arm @ 5.5m	4	Nos.	Contact	Client
6	PoE Switch TP Link / HIKVISION (4 Port)	1	No.	Contact	COS AI
7	Internet Dongle	2	Nos.	Contact	COS AI
8	FIBER Cable / Media Converter to connect 2 Cameras to Toll Centre Desktop and LPU Kit	1	No.	Contact	Client
9	LED Focus Lamp 1000W / 500W as per the Plan Diagram	6	Nos.	Contact	Client
10	To viewing the real time scenario - Desktop (Specs.:i5/ 16GB RAM / 1 TB SSD)	1	No.	Contact	Client
11	8 Port Gigabyte Ethernet switch for LAN purpose	1	No.	Contact	Client



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.
- ★ The video coverage area must not have stationary vehicles parked within it. Only through-traffic is preferred.
- ★ For Toll Plaza installations, it is recommended that only through-traffic be accommodated.
- ★ Usage in areas with mixed traffic, such as road crossings, traffic signals, or leakage roads, is not recommended.
- ★ If a customer requests usage on road crossings, service roads, leakage roads, etc., a separate product should be explored.



 COS AI – AI Powered Intelligent Transportation System Provider

Please visit other similar ATCC products:

- **ATCC Movable** - Exclusively for Traffic Mangers and DPR Consultant.
- **AI based Traffic Camera** - Smart and economical system, Installed Our camera and kit and upload video in cloud for and share the result to the customer.
- **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 for more information.



COS AI

AI Powered Intelligent Transportation System Provider

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