

Toll-



Smart Queue Analysis for Toll Plazas

Powered by AI & Queuing Theory



Toll Analytics



IHMCL



NHAI



What is TOLL-Q?

TOLL-Q is an AI-powered Queue Analytics and Congestion Monitoring System developed in alignment with **IHMCL Plaza Congestion Monitoring System (PCMS)** requirements. It uses video analytics to detect and analyze congestion across toll lanes, measuring inflow and outflow traffic, queue length, and waiting time at defined regions of interest.

Key Features

- Real-time queue computation using inflow–outflow analytics
- AI-based congestion detection for lane-wise performance tracking
- Seamless integration with ATCC & ANPR modules
- Cloud dashboard for live visualization and automatic reports

Benefits

- Real-time queue visibility for operators to optimize lanes & manpower
- IHMCL-compliant scientific audit for authorities
- Shorter waiting times and fair flow for road users
- Data-driven reports & forecasting for auditors



COS Artificial Intelligence Pvt Ltd

Pioneering ITS solutions for Smart Highways, Tolling, and Traffic Enforcement. Our portfolio includes Sesha & Sesha Plus (Cloud-based ATCC + ANPR), Toll Lekha (Toll Audit & Analytics), and now TOLL-Q (Queue Analysis System).

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