

**CUSTOMIZED SOLUTION, OWN ANPR API**

# AUTOMATIC PARKING MANAGEMENT SYSTEM (APMS)

(AI based Deep Learning Technology)



AI Powered Intelligent Transport System provider

## OPERATING PRINCIPLE OF APMS

The Automatic Parking Management system (APMS) works with the Aid of the State-of-the-Art AI based deep learning technology by COS AI. In this System IP/CSI Camera, Main display Occupancy Display, Occupancy Camera, LPU's, etc., is deployed for detection cars. There is Security cabin both at entry & exit point in case if there is any issues to be addressed manually. Central Command Centre (CCC) is provided with Server, Wall mount Display & Total control of all the APMS is monitored at this CCC. The free and occupied parking is monitored by the dedicated occupancy cameras for every 4 cars parked. The parking occupancy is monitored and displayed on the CCC and LED display.

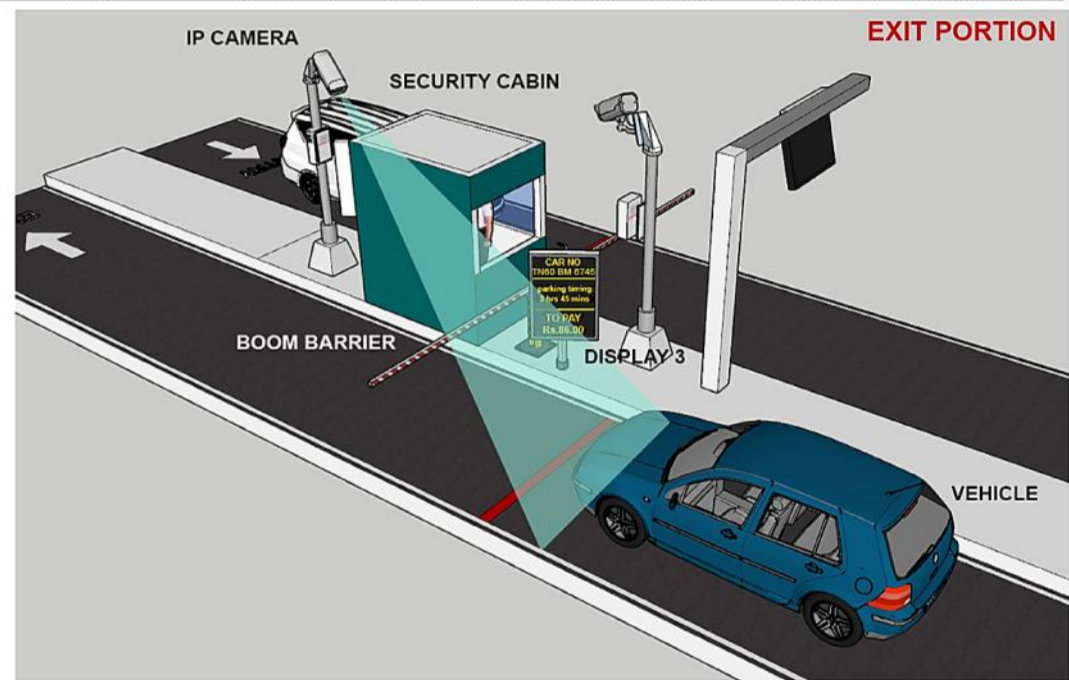
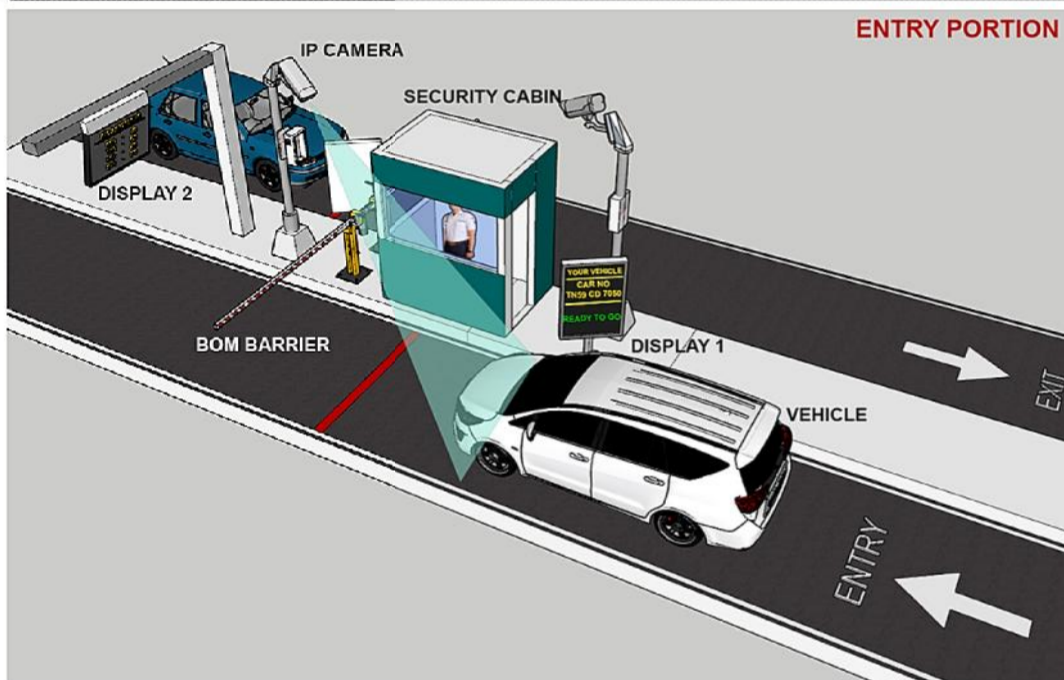
## ENTRANCE OPERATION

In this system IP/CSI camera is deployed for detection of License plate of the cars, which is processed in the Mini PC (Own ANPR API) and signal is issued to the RS485 for operating the Boom barrier. Once the car enters the parking zone, there is a Large Main display to show the free & occupied number of parking in each lane of parking and Number Plate of Vehicle entering the parking. On the specific lane there is one more Display showing the exact location of free parking available.

## EXIT OPERATION

Once the Car Approach the Exit point, the IP/CSI Camera recognises the License plate Number with the process of Mini PC and sends the data to the data centre server to check the payment of parking fee. Then from the server the signal is issued to the controller RS485 to open the Boom Barrier. Fee is collected through UPI or Direct cash. Now the car exits from the parking hazel free.

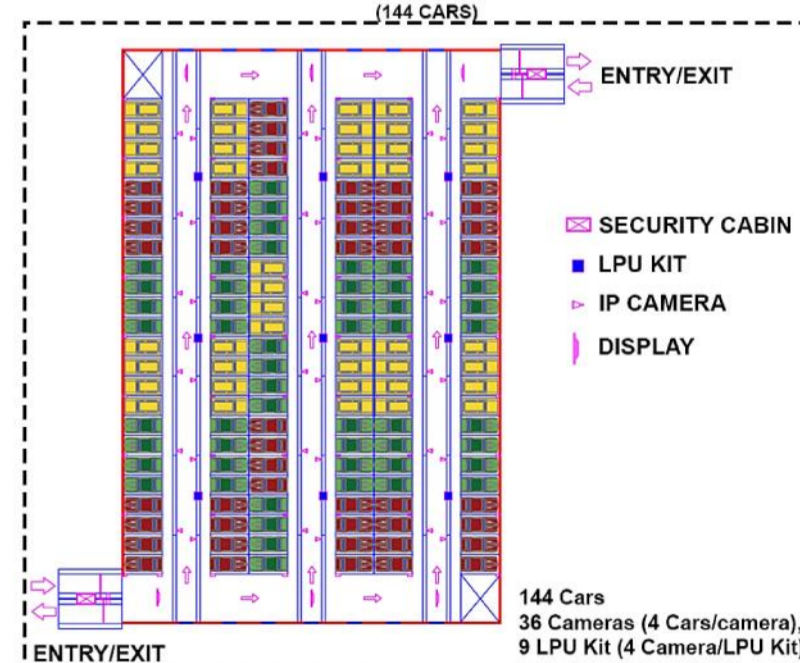
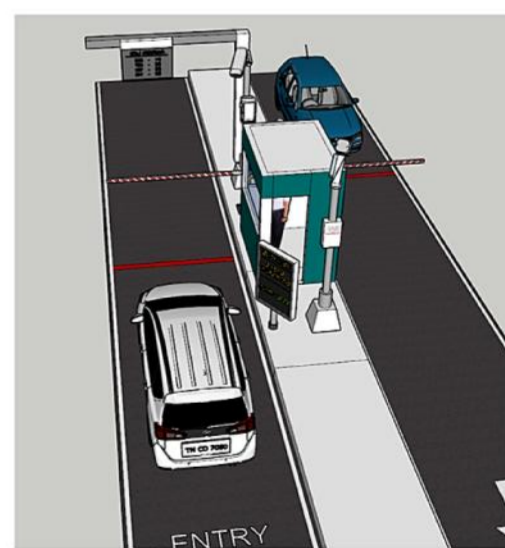
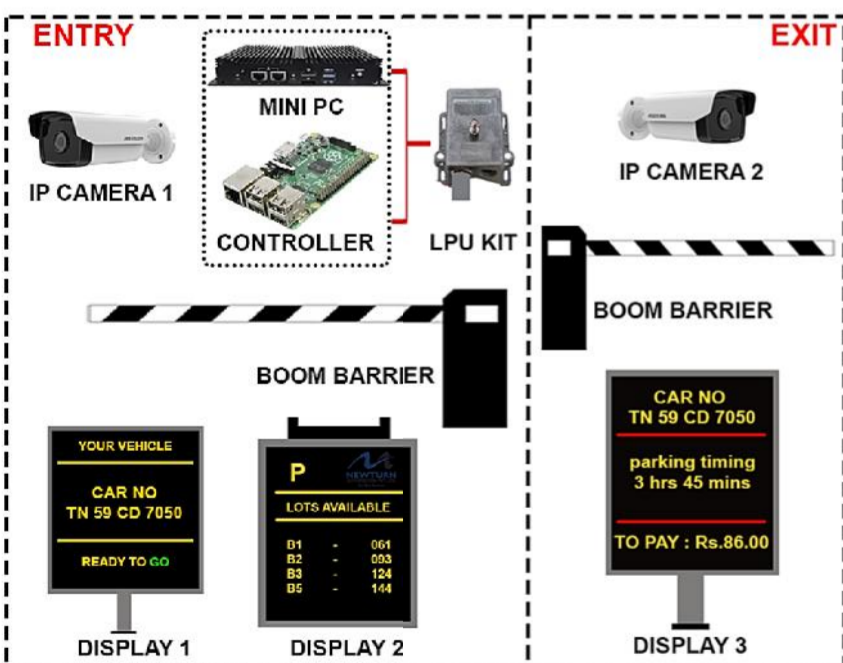
**Application - Malls, Residential Apartments, Offices, Hospitals, etc where Parking Fee collection is needed.**



## RS485 CAN EXPANSION BOARD

## SECURITY CABIN

## PARKING HALL (144 CARS)



## CENTRAL COMMAND CENTER



WALL MOUNTED DISPLAY



WORK STATION SERVER



OUTPUT TO CLIENTS AND CUSTOMER