

## **Lalbaug POC:**

**Background:** To setup an intelligent video surveillance system (non-commercial CSR initiative) in order to avert any security threats at Lalbag Raja, which is one of the most visited Ganesh pandals in city, Mumbai Police had approached to Revmax to assist the department to set up a system which could give live view & alerts to the police headquarter and other policing zones.

After orienting the project's requirement to various niche security surveillance equipment, software and services Vendors, they decided to support the CSR activity with their product line. Their names are as follows:

- Axis (IP HD Surveillance Camera)
- Sony (IP HD Surveillance Camera)
- Panasonic (IP HD Surveillance Camera)
- Bosch (IP HD Surveillance Camera)
- Hikvision (IP HD Surveillance Camera)
- Milestone Systems (Video Management & Control Software)
- Agent (Video Content Analytics Software)
- Pivot-3 (Computing & Storage Server)
- Tulip (Remote Network Connectivity)

## **The system:**

The system was combination of 18 different IP cameras which included the live testing of various analytics like loitering detection, abandoned object detection and loss of camera feed detection in crowded areas in midst of festivities. The POC set up and functioning of analytics was tested by Commissioner of Police (Mumbai), IT secretary, Additional Commissioner of Police (Central Region) senior PWC team members and all of them were satisfied with results.

## **The iVSS System:**

The implementation of POC was a challenging task as it required things to be started from scratch like installation of camera poles along with civil work, deciding the camera locations followed by laying of fiber and power cables (1.5 KM) under neat the Lalbaugh Bridge without drilling a single hole (as per BMC instructions).

*\* Our team successfully managed to lay the cables with drilling a single hole.*

Getting the cameras from the various Vendors was a big challenge as they are business rivalries. But convening them importance of implementation of Intelligence Video Surveillance System for the sec of Homeland Security for the very prestigious and important event they decided to come on same platform to support the meaningful cause.

The process was well supported by the local police authority and various permissions from BMC, Traffic and three nearby High rise building were obtained just within 14hours. Cables and required material was purchased overnight and camera location were finalized as per the survey did by our Engineer's.

The implementation started very next day that comprised of laying of fiber and power cable the team took the task on toes and worked relentlessly day in, day out to put-up the system in stipulated time regardless of numerous bottlenecks faced from material suppliers and inadequate site conditions mean while the other team was involved

in getting cameras and equipments from various Vendor. Extra efforts (18-20 Hrs) put by the support & implementation team to ensure seamless system uptime. (both locally & remotely).

We succeeded in setting up a fully fledged Monitoring cum Control room in a open rooftop limited space provided to us above lalbaugh Traffic Bit (too adverse temperate condition for the installed server) .

The system was a true prototype of an intelligent city video surveillance system.

Live video feed It fully served all the monitoring & control purpose of the policing & traffic department. All the generated Events and Alarms were submitted to the department for analysis and readiness for the respective event the very next year.