

Headquartered in Mumbai, Maharashtra the client is India's largest and Asia's second largest paints corporation with a market share 54.1% in the Indian paint industry.

Solution:

TITO.

Problem / Pain Point:

1. Manual entry of truck details during entry and exit into the premises
2. Occurrence of bottlenecks in areas or processes
3. Delayed turnaround of trucks
4. Inability to capture Truck Turnaround Time (TAT) in real time

Objective of Project:

1. To identify bottleneck areas or processes which lead to or can lead to delays in truck turnaround.
2. To automate the process of capturing truck details at entry and exit gates.
3. To gain real time updates of Turnaround Time (TAT) of each truck.

Solutions Proposed:

QodeNext started off by conducting a site survey of the client's premises. On conducting the survey, it was found that the client followed a manual process for truck entry, exit, loading and unloading. Due to the manual process, trucks had to wait for their turn at every stage. The increased wait time and time lapse between each process was found to be cause of bottlenecks. The process also leads to occurrence of manual errors.

To tackle these challenges, QodeNext suggested a solution using RFID tags, RFID antennas and QodeTITO software. Each truck would be provided with an RFID tag which would be placed on the windshield. As the truck arrives at the entry gate, the RFID tag would be read by antennas placed at the gates and the truck details would be fetched from the QodeTITO application.

For loading and unloading process, the truck would be allocated a bay based on bay availability. The bay details along with truck information would be displayed on an LED display. Each bay would be equipped with RFID antennas to capture truck details at the time of bay entry and exit. By doing this, client can gain real time updates of truck movement and bay availability. On completion of loading and unloading process the truck moves to the exit gate at which the antennas at the gate capture truck details using the same process as during entry.

The solution proposed by QodeNext would enable the client to fully automate their truck management process.

Benefits:

1. The solution identifies and tackles the cause of bottlenecks in the client's premises.
2. RFID capturing technology enables automatic capturing of truck details at various stages.
3. Automation allows to gain real time updates of Turnaround Time (TAT) of each truck .
4. The system will produce a report which will keep complete record of the vehicle for time spent within the premises and enable taking data driven decisions.
5. Automation reduces the occurrence of manual errors.
6. The time spent on data capturing and processing is reduced, thus providing cost advantage and optimum utilization of resources (manpower, materials, space) available .