

## CASE STUDY

# Manufacturing Industry CAR PARKING MANAGEMENT at Plant site



*An industrial premises that needed an automated solution to manage multiple entry/exit points while enhancing security. Implementation of next-gen RFID-enabled remotely-controlled solutions results in increased efficiency and enhanced security.*

### Company:

Bharat Petroleum, Mumbai, India

**Facility:** Plant site

### Challenge:

- Multiple entry/exit gates at factory premises which contains a large parking area that has capacity for many vehicles.
- Monitoring access to prevent unauthorized vehicle entry.
- Multiple entry/exit gates on premises require integrated vehicle management across all gates.
- Monitoring vehicle location within the parking area.



### Proposed Solution:

- Essen RFID's Car Parking Management System (CPMS) detects all vehicular traffic into and within the site parking area.
- Essen RFID's Xtenna™ Reader/Antennas deployed at all gates and at strategic locations within the parking area, along with vehicle tagging with Essen RFID's Parka™ tags. Vehicle particulars and ownership details are transmitted to a central back-end database for verification.
- Transfer of all data in real-time results in automated functioning, streamlined queuing management and instant knowledge of current parking status.
- Automated messaging to back-end server and interlinking with plant's employee management systems ensures that the RFID tag ceases to function after an employee's vehicle exits from the premises.

### Realised Benefits:

- Vehicle tracking in real-time on site
- Streamlined entry/exit
- Remotely controlled and managed 24x7 service
- Process makes highest level security possible

### TECHNOLOGY

#### Solution:

EPC Gen2 compliant vehicle tracking system

#### Tag Type:

Parka™ UHF Passive

#### Reader/Antenna:

Xtenna™ Long Range

#### Read Range:

17 metres (50 feet)

#### Method:

Multiple Tracking via Integrated Reader/Antenna modules

**Number of modules:** 4

#### Integration Platform:

**RFID Middleware:** Xtenna™ Studio

**Application:** Essen RFID's CPMS

**Database:** SQL Server 2005 Exp. ed.

#### Tag Manufacturer/Supplier:

Essen RFID

#### Reader/Antenna Manufacturer:

Essen RFID

#### Systems Integrator:

Essen RFID

*For further details contact:*

#### Essen RFID

24-B, Jolly Maker II

Nariman Point

Mumbai 400021 India

[www.essenrfid.com](http://www.essenrfid.com)