

# Metro Infrasy's The Intelligent Transportation Specialist



**Toll Collection Systems ( TCS)**



**Check Post**



**HTMS**



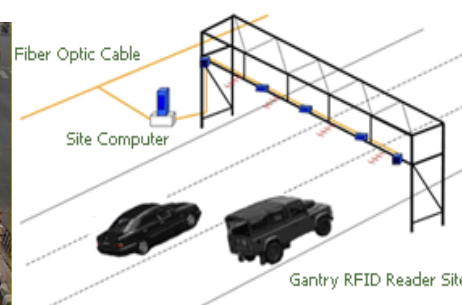
**Parking Management Systems (PMS)**



**Parking Guidance system (PGS)**



**Traffic Enforcement**



**Electronic Vehicle Registration**



**Variable Msg Signs**

# Metro InfrasyS → Driving innovation to infrastructure

An Intelligent Transportation System(ITS) Company with Innovative Solutions for Traffic and Transportation providing highway systems and urban systems

25 % growth in Revenue and profit over 3 years

35 % business through repeat orders

Projected to grow 15 times over the next 5 years

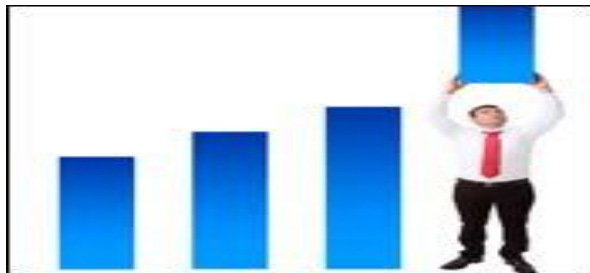
# Company DNA

**Strong Corporate DNA focused on Value to Customers ,  
Employees and Shareholders**

**Passion for Engineering  
Intelligent  
Transportation Systems**



**Driven by Customer Satisfaction**



**Leveraging process based cloud technology**



# Managing and Advisory Board



Sachin Bhatia

**Founder & CEO**

Engineer with 10+ years of industry experience  
Managing editor of Indiantollways.com web Magazine



Satish Bhatia

**Managing Director, CFO and Co founder**

Seasoned entrepreneur with 40 years Business Experience  
Financial Analyst . Skilled in Government Liasoning



Rishi Khanna

**Non-Executive Director & Strategic Advisor**

Director C&S Electric, a USD 200 mn engineering company  
Specialist in Business Strategy in the engineering space



Sameer Bhatia

**Advisory Board –Technology and Web Strategy**

Seasoned and successful internet Entrepreneur . Core advisors  
on web marketing and Indiantollways.com .

# Company Infrastructure



## Head Office in Mayapuri

Location : B 92 Mayapuri Industrial Area ,  
Phase I , New Delhi



## Company 's Factory in Manesar

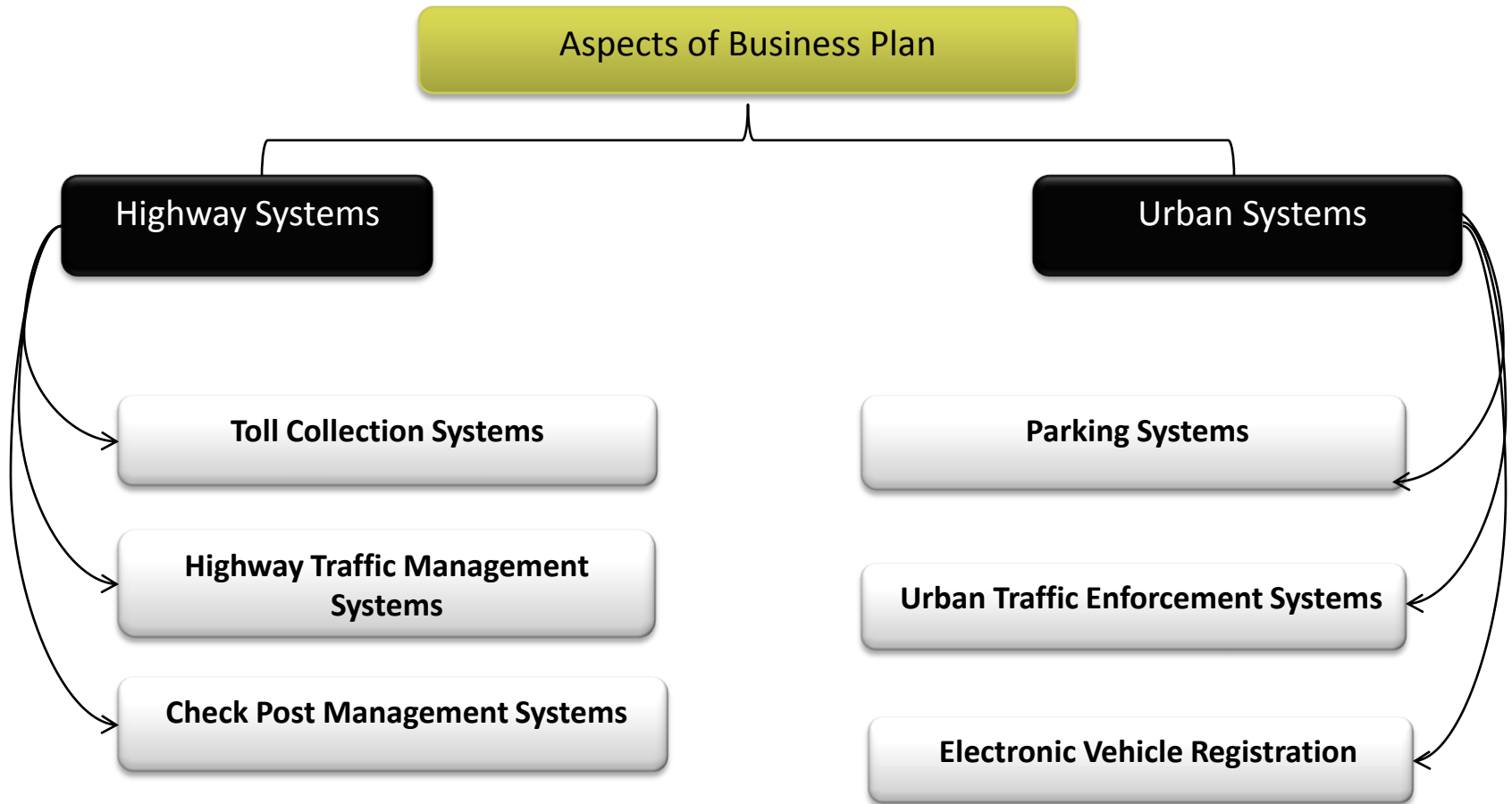
- Software Development Center
- Hardware Assembly Area
- Live Testing Labs
- Team of more than 25 Design ,Software and Support Engineers in this location



## Live Testing Lab & Software Development Centre

- Built-in mock lane for live system testing and Demo

# Key Markets & Technologies



# Highway Systems – Toll Collection Systems (TCS)

## Definition:

- Electronic toll collection systems are designed to assist in the management of toll operations

## Use:

- Audit and control over the collection of Revenues
- Faster processing of vehicles in terms of per lane / per hour

## An Instance : *Madurai Tuticorin Toll Plaza*

- Highlights
  - Launch of Toll System 2.0 which is based on cost-effective indigenous technology
  - Successful Pilot Testing resulting in strong order book creation in South India
- Concessionaire – Madhucon



## Key Strengths

- **Proprietary Software Technology**
- **Built-in Device Level Diagnostics**
- **Design for 97% SLA**
- **In-house Controllers & Barriers**
- **Non-Intrusive Technology for Vehicle Identification**

# TCS – Biggest Project Experience

## Completed 4th largest toll plaza in the world – Delhi Gurgaon Expressway



- Proprietary “diagnostic” technology enabling **industry’s only solution with 97% uptime** assurance

- **Proven record** with repeat business

- Project undertaken in Joint Venture with world leader

*kapsch* >>>

# Highway Systems – Highway Traffic Management Systems (HTMS)

## Definition:

- A Wide Area Network with a Control Center and various subsystems such as Emergency Call Box, Variable Message Signs, CCTV, Mobile Radio, Traffic Stations, Weather Stations & Data Transmission Systems

## Use:

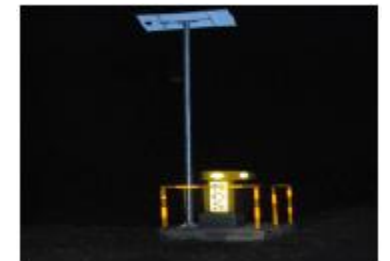
- Highway safety can be increased and Traffic operations improved
- Data Collection for Traffic and weather patterns

## Key Strengths

- In-house Manufacturing of emergency call box
- Setting up Variable Message Sign factory
- In-house System software



CCTV



ECB



Variable Message Signs

# References – Toll and HTMS



## KMC BSC JV

Design, Supply, Testing & Commissioning of Toll Collection Systems for Chilkaballapur Section of NH-7 for 3 Toll Plaza equipped with a total of 24 Toll Lanes including 24 Handheld device system



## Navuyuga Engineering Company

Design, Supply, Testing & Commissioning of Toll Collection Systems for Devanahalli Section of NH-7 for 2 Toll Plaza equipped with a total of 13 Toll Lanes including 2 ETC lanes, along with Maintenance period of 12 months



## DND FLYWAY

Supply, Installation, Commissioning of Automatic Vehicle Classifications Sensors for DND FLYWAY for 27 lanes Toll Plaza at Noida.



## DPTL : Sadbhav and HCC LIMITED

Design, Supply, Testing & Commissioning of Toll Collection Systems and Highway Traffic Management System for Dhule Section of NH-3 for 2 Toll Plaza equipped with a total of 24 Toll Lanes including more than 24 WIM System and installation of 96 ECB, along with Maintenance period of 24 months.



# References – Toll and HTMS



## GMR PROJECTS LTD

Supply, Testing & Commissioning, Maintenance of AVC Subsystems & Toll Collection Equipments for Ambala Chandigarh section for 36 Lanes for 3 projects.



## KNR Constructions

Design, Supply, Testing & Commissioning of Toll Collection Systems Karhatal and Highway Traffic Management System for Islamnagar to Section of NH-7 for single Toll Plaza equipped with a total of 10 Toll Lanes including 2 WIM System and installation of 33 ECB and other highway equipments , along with Maintenance period of 12 months



## Madhucon Projects Ltd.

Design, Supply, Testing & Commissioning of Toll Collection Systems for Madurai Tuticorin NH-45 for 2 Toll Plaza equipped with a total of 24 Toll Lanes including 4 WIM System , along with Maintenance period of 24 months



# References – Toll and HTMS



## Gujarat Pratibha Johnson OMT-2 P Ltd

Design, Supply, Testing & Commissioning of Toll Collection Systems for Porbandar Bhiladi Jetpur Section of NH-8B for 2 Toll Plaza equipped with a total of 12 Toll Lanes ,along with Maintenance 12 Months.



## Soma Isolux Corsan India Pvt Ltd

Design, Supply, Testing & Commissioning of Toll Collection Systems for Panipat Jalandhar Section of NH-1 for 3 Toll Plaza equipped with a total of 32 Toll Lanes including Traffic Control Equipments , along with Maintenance period of 3 months



# Check Post

## Opportunity:

- New infrastructure to be set up at the entry of each State
- Integrated Checking & Law Enforcement done on every Commercial Vehicle entering a State

## Subsystems:

- RFID Based Lane Application: Restricted Lane Entry of Each Passing Vehicle with RFID Based Vehicle Identification Systems
- Sub Systems consist of Automatic Vehicle Classification systems, Weigh in Motion Systems, Barriers & other lane accessories



# Urban Systems - Parking Management and Guidance Systems

## Definition:

- A robust parking management system build from the ground up to provide maximum security, reliability and convenience

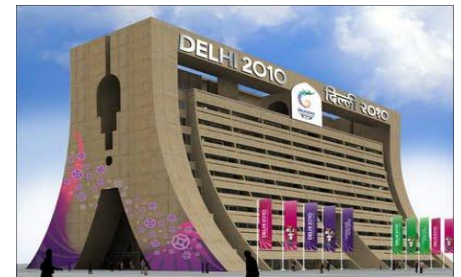
## Types:

- Parking Management Systems - Systems for Control of Revenue in Car parks
- Parking Guidance Systems - Systems for control of Traffic in Car parks by guiding the cars to the empty slots

## An instance: *Municipal Council Common Wealth Building*

### *Key Highlights*

- Ultrasonic sensor based state Intelligent guidance system
- 1st Project of its kind to be implemented in India
- 700 parking slots across 3 basements
- Fully Automated Entry lanes
- No. of Entry & Exit lanes: 2



## Key Strengths

- Value based Solution
- Robust and Proven Solution

# Traffic Enforcement & Control Systems

## Definition:

- Metro Infrasy provides the complete solution for Highway Traffic Management System

## Subsystems:

- Variable Message Signs
- Capable of producing real time messages for alarms/ advisories
- Red Light & Speed Enforcement
- Detect Traffic Infringements
- Automatic Incident Detection Systems
- Video based detection of defined incidents such as Pedestrian walking, Congestion detection etc

## Key Strengths :

- Globally proven and Robust Solutions
- Reliable Project Services





# THANK YOU

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