

"Data Driven Mobility"

Gopal Valecha AVP – IT (BD)



Delhi Integrated Multi-modal Transit System Limited Joint Venture of Govt. of NCT of Delhi and IDFC Foundation

An ISO 9001, 14001, OHSAS 18001, ISO 27001 & CMMI L3 Certified Company

DIMTS Overview

DIMTS is a 50:50 Joint Venture of

Government of National Capital Territory of Delhi (GNCTD)

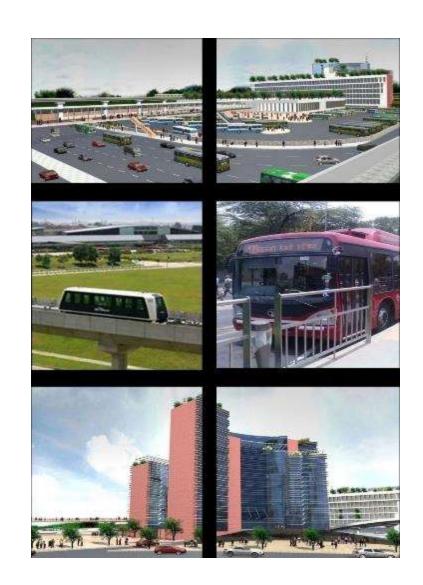
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Infrastructure Development Finance Company Ltd. (IDFC; USD 10 billion assets under management; power, highways, ports, etc.)

Chief Secretary of Government of National Capital Territory of Delhi is the chairman of the company

Vision

To create an environment where the majority of trips take place by public transport in preference to personal motorized transport





About DIMTS

A Value Proposition







Transport Planning



Engineering



Transport Technologies

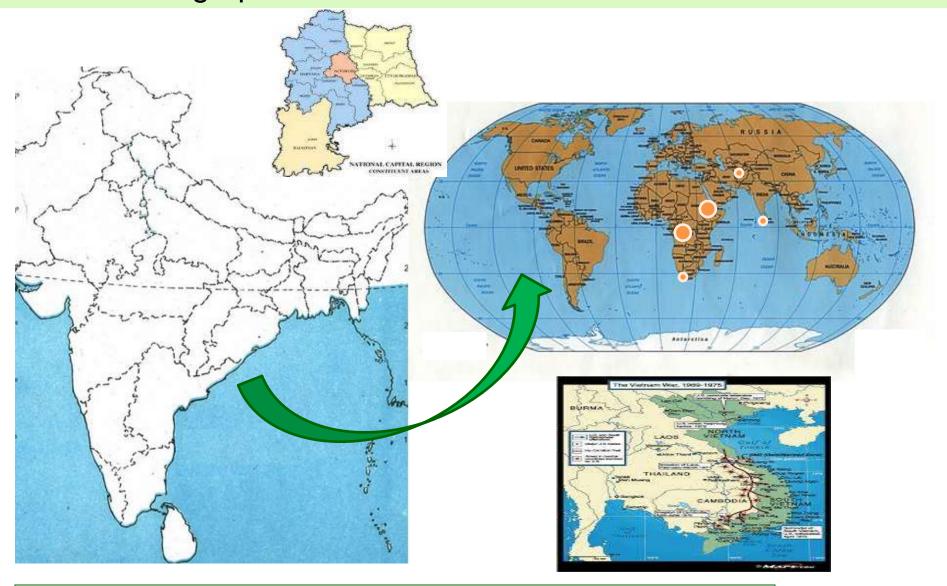


Operations

End to End Solutions – Urban Mobility



Areas & Geographies



Projects and clients across 17 states in India and 5 countries



Sensors around us ...



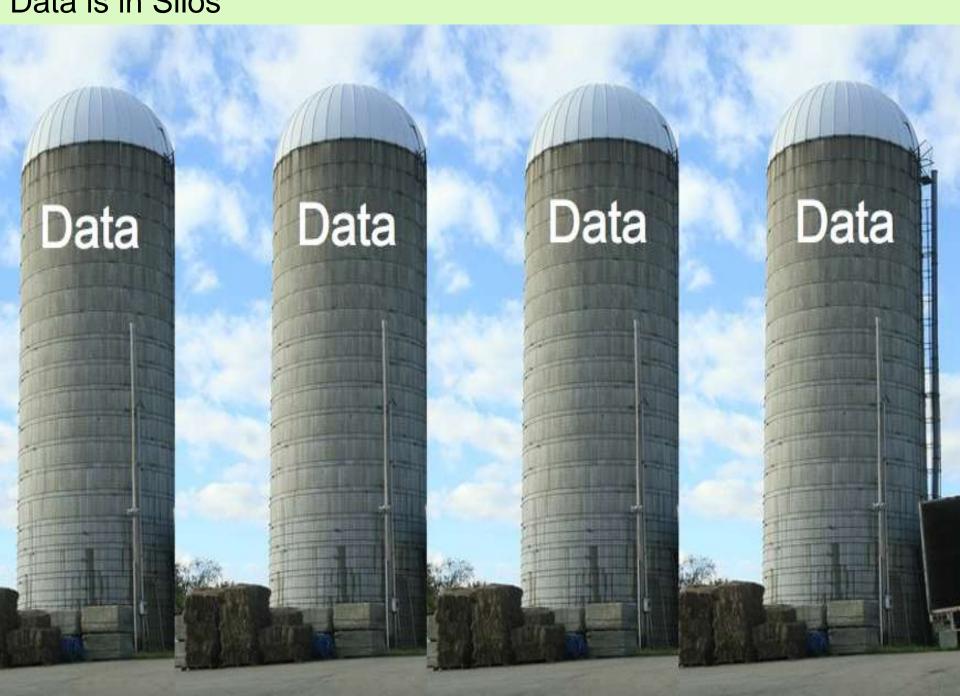








Data is in Silos





Harnessing value from Data

Data (Real Time & Historic) helps cities in :

- Informed decision making
- Becoming more efficient
- Better governance and civic engagement
- Saving costs
- Safer
- Create new business models / revenue streams



Multiple use cases

- Public Transportation
- Transport Planning
- Route optimization & Rationalization
- Traffic Congestion
- Seamless Travel experience
- Parking
- Safety & Surveillance
- Waste management













Delhi Context



1,500 Buses



80,000 TSR



400 + Water Tankers



25,000 PSV



Delhi Context







80 GB Data /Day



Command & Control Center... Empowering Authorities

State-of-the-art Command & Control Center for monitoring of various ITS sub-systems :

- Adaptive Traffic Control System(ATCS)
- CCTV based Junction Surveillance
- Variable Message Signs (VMS)
- Red Light/Speed violation Detection
- Video Incident Detection System
- Parking lot Vacancy Counter
- Automatic Vehicle locator System



Empowering Commuters







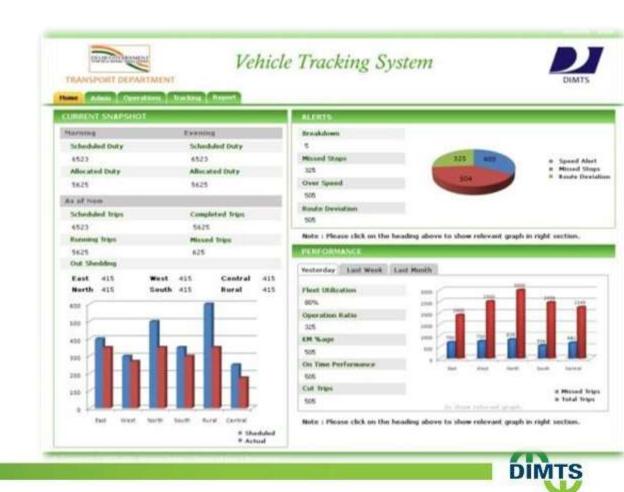


Utilizing Location DATA

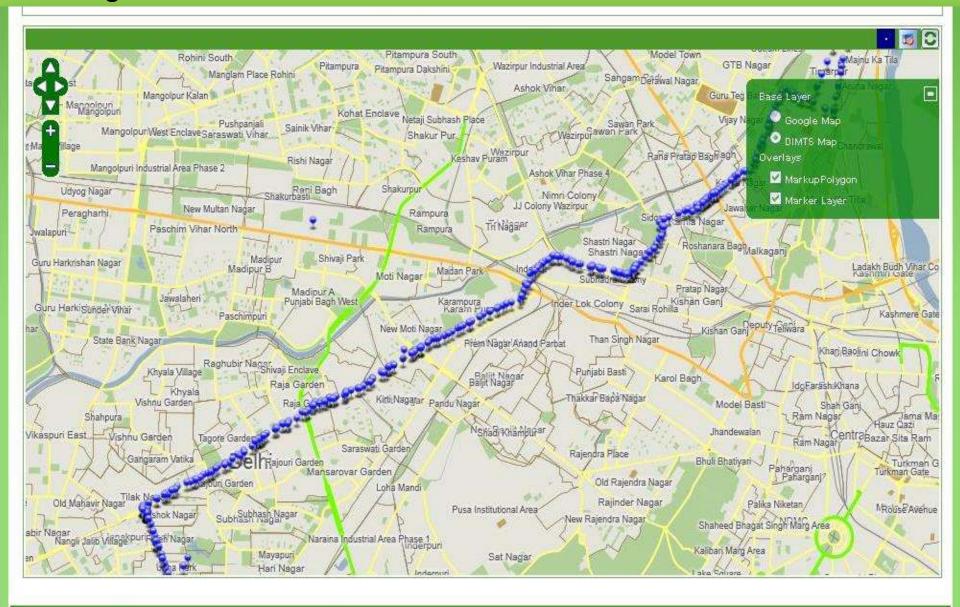
GPS based **Automatic Vehicle Location (AVL) System** has been deployed on all the buses. System is being used to monitor operations of the fleet

Alerts Dashboard manages alerts and responds to deviation/violations

- Over-speeding reports
- Depot, vehicle and route wise reports
- Missed stops reports
- Route deviation reports
- Trip status reports (Cut/Short/Missed)
- Distance travelled



Utilizing Location DATA





Utilizing Location DATA

- Real-time tracking of > 80,000
 Vehicles
- Autos fitted with GPS integrated EFMs
- Complete Trip tracking with fare meter data
- Panic Button
- Tampering alert to prevent tampering of integrated meters
- MIS reporting to the Transport Department
- Pooch-o Auto booking mobile application for Public

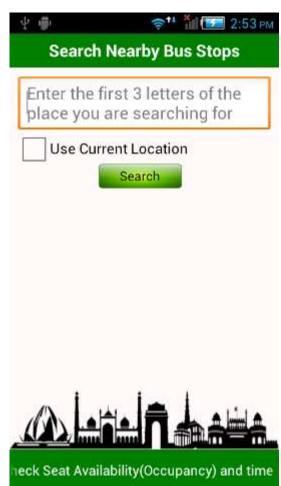


Utilizing Location DATA ... Expected Time of Arrival



Utilizing Location DATA ...Journey planner









Utilizing Location DATA ...Journey planner

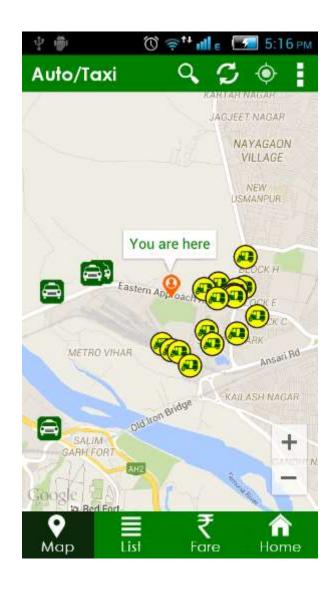


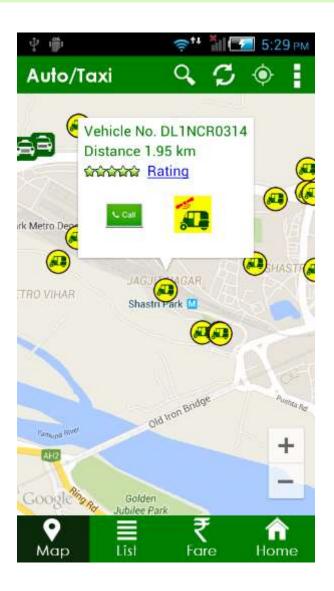






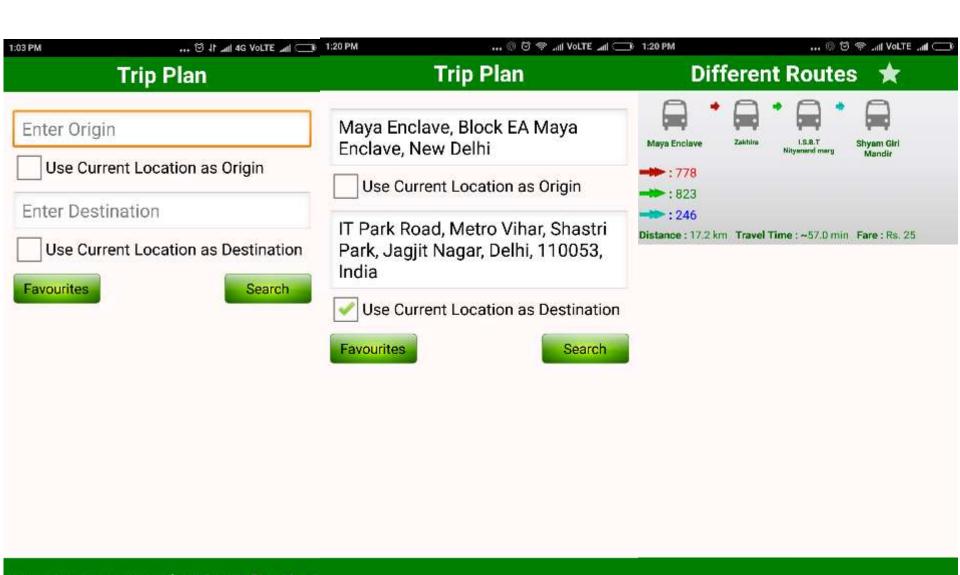
Utilizing Location DATA ...Journey planner







Utilizing Ticketing DATA...Journey planner



∍ase update latest version from Google Play. NextE



Other Use Cases/Projects





MoUD eSBM Platform for Solid Waste Management under Swachh Bharat Mission











Solid Waste Management



MEMORANDUM OF UNDERSTANDING

BETWEEN

MINISTRY OF URBAN DEVELOPMENT GOVERNMENT OF INDIA

AND

DELHI INTEGRATED MULTI MODAL TRANSIT SYSTEM LIMITED

Memorandum of Understanding between DIMTS and MoUD for providing eSBM Platform for Solid Waste Management in Urban Local Bodies

This Memorandum of Understanding (MoU) is bigned on 2nd day of May 2010 by mill between PRESIDENT OF INDIA, acting through SHRI PRAVEEN PRAKASH, JOINT SECRETARY & MISSION DIRECTOR, MINISTRY OF URBAN DEVELOPMENT, GOVT, OF INDIA (harmouther called MoUD which expression shall unless repugnant to the context include its successors in Govt, business administrators and assigns or legal representative) of the FIRST PARTY.

AND

DELHI INTEGRATED MULTI MODAL TRANSIT SYSTEM LIMITED, a Company registered under the Companies Act 1956 having its Registered Office at the Floor, Maharana Pratap ISBT Building, Kashinara Gate, New Light-110006 acting through SHRI M. RAMSEKHAR, EXECUTIVE DIRECTOR & JOINT GEO (hereinafter unlied DIMTS which expression shall, unless repugnant to the context includes its successor in business, administrators, liquidators and assigns or legal representatives) of the SECOND PARTY.

In the MoU, henceforth, MoUD and DIMTS shall be individually referred to as "PARTY" and collectively as "PARTIES".



Intelligent Signaling System – Ahmedabad

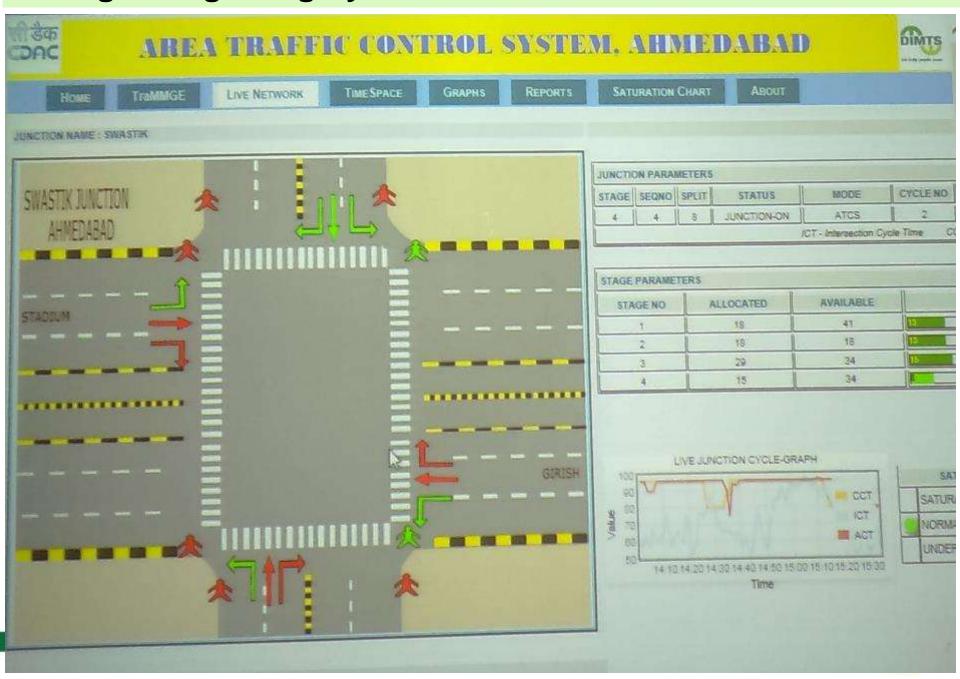
- DIMTS has been nominated for restoration & repair works of 186 signalised intersections and up-gradation of Control Room with remote monitoring, in a phased manner, for Ahmedabad Municipal corporation
- Based on DIMTS performance, Ahmedabad Municipal Corporation has renewed O&M contract by 3 more years - up to Oct 2018





- ISS Ahmedabad includes
 - 186 Signalised Intersections
 - Adaptive Signal Controller
 - LED Signal Heads
 - Vehicle detection cameras
 - MPLS-VPN leased line
 - Operations Control Center
 - CoSiCoSt ATCS software
 - Operations & Maintenance of Signalised intersections

Intelligent Signaling System – Ahmedabad



Intelligent Signaling System – Surat

- In Jan 2014, DIMTS was awarded the contract for Development, Supply, Installation & Maintenance of Area Traffic Control System(ATCS) at 52 Junctions on BRTS corridor in Surat City
- DIMTS will Operate & Maintain these Junctions for 6 years.





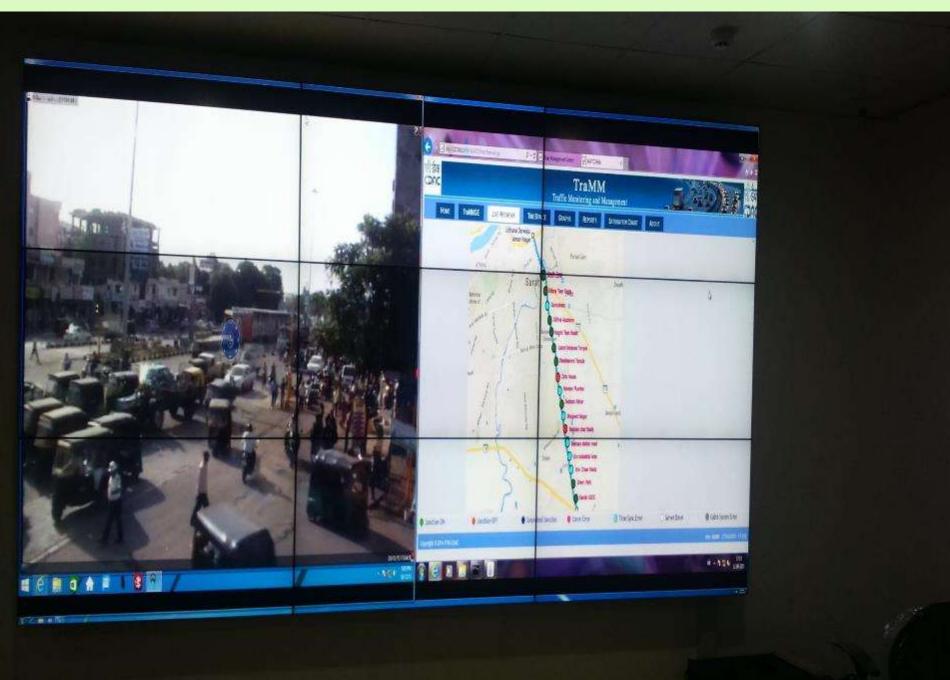
ISS Surat includes

- 52 Signalised Intersections
- adaptive Wireless Traffic Signal Controller,
- LED Signal Heads,
- Vehicle detection cameras,
- OFC for 24x7 communication
- Operation Control Center(OCC),
- CoSiCoSt application software
- TraMM Application Software

ATCS Control Room – Surat



ATCS Control Room – Surat



AUTOMATED PARKING MANAGEMENT SYSTEM (APMS)





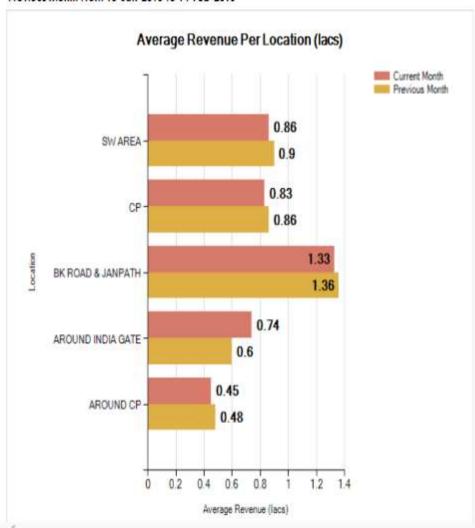
- Operator based Entry/Exit Booth with interface to Arming/Exit Loops, Bar-code printer/reader, Smart-Card Reader, User fare Display, Boom Barrier & ANPR camera for Number plate reading.
- Bar code based token generation at Entry Gate while Bar code token scanning, tariff calculation and Payment receipt generation at Exit Gate
- VMS as part of Parking Guidance system provides vacancy information.
- Availability of Parking slot information upon arrival and proper signage and navigation system, ensures hassle-free parking space.
- Provision for advance Parking reservation through SMS or Internet
- Efficient Parking reduces congestion, pollution, driver's frustration and enhances overall driving experience within Parking lot.

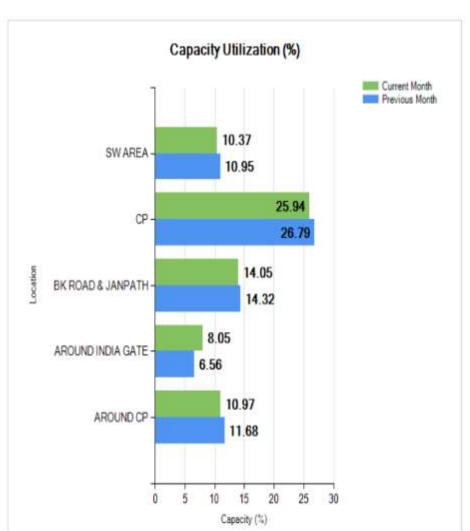
AUTOMATED PARKING MANAGEMENT SYSTEM (APMS)



Location-wise Revenue & Capacity Utilization

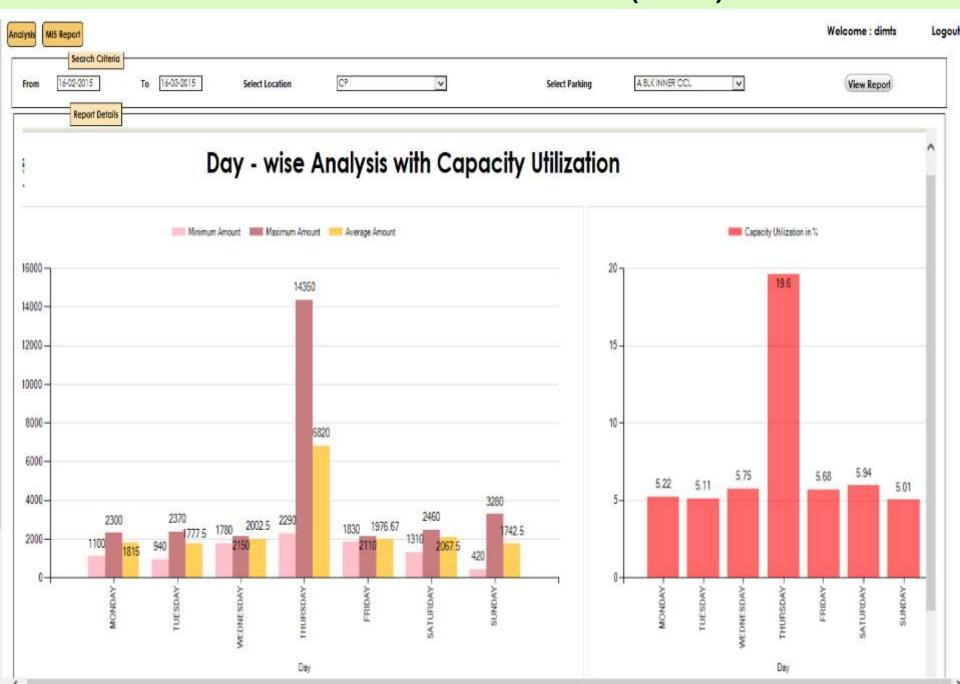
Current Month From 15-Feb-2015 To 16-Mar-2015 Previous Month From 16-Jan-2015 To 14-Feb-2015







AUTOMATED PARKING MANAGEMENT SYSTEM (APMS)



MORTH - National Level Vehicle Security and Tracking System

Scope is to support MoRTH in formulating and implementing the scheme "Security for Women in Public Road Transport in the Country"

Project is planned to be funded from the Nirbhaya Fund.

Following components are proposed

A National Backend Data Centre.

covering more than 3 million vehicle Installation of
GPS
CCTV
Panic Buttons
in nominated PSVs



Thank You

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