

URBAN TRANSPORT



SMART MOBILITY PLAN OF VADODARA



Existing Public Transport

- City Bus Service Operated by M/s VINAYAK

LOGISTICS

- Fleet of 67 buses (including 5 micro, 2 double-decker & 2 AC)
- 30 bus routes
- No. of trips- 1500/Day
- Average 25 Trips/Bus
- 30 to 40 minutes headway
- Total approx. 300 bus stops
- Total 16,500 kms/Day Covered
- 80,000 to 90,000 Passenger/Day Travelled
- 1200-1500 Passenger/Bus per day
- Premium paid by contractor to VMC 65 lacs in five years

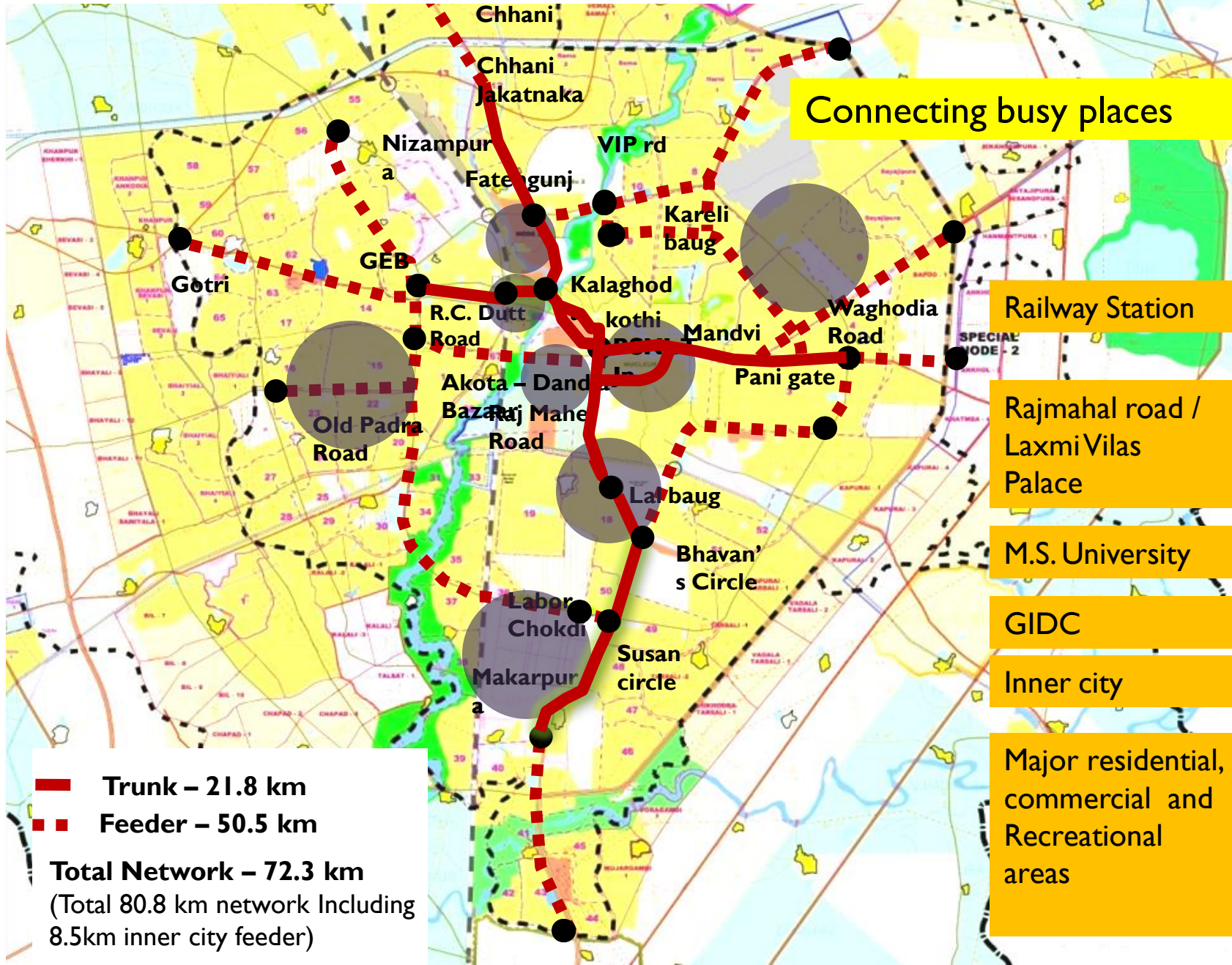


The proposed route for approval

- We had proposed for approval to permit to operate the existing city bus services outside the nearby municipal areas like;

ROUTE	OUSIDE KM FROM CITY
PADRA	3.5
VASAD	13.5
SAVLI	26.3
AJWA	13
POR	9.4
JAROD	14.7
LIMDA	14

Proposed Bus Network & Phasing

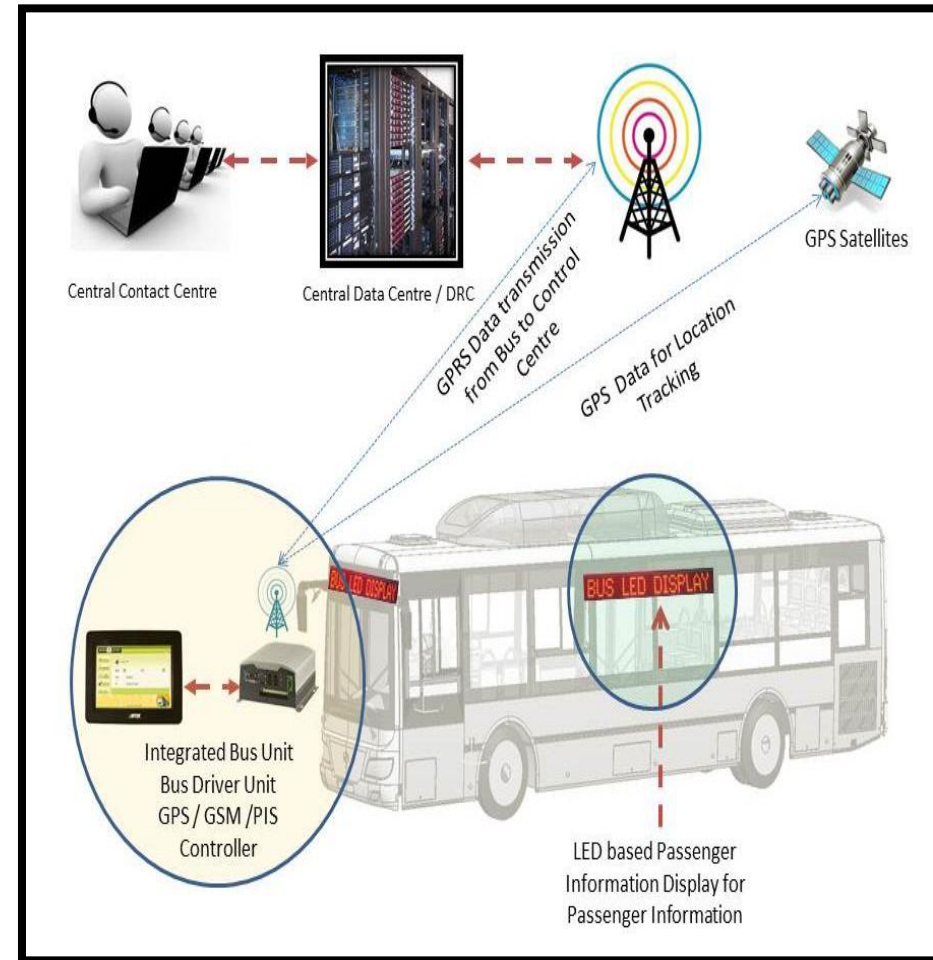


Fleet Requirement for Feeder Service

- **Feeder services will enable transfers from trunk services.**
- **Feeder service will typically be of short lengths (6-10 km) and will offer the last mile connectivity.**
- **Physical integration will happen at bus stops only.**
- **Floor height of the midi buses preferably should be 900mm.**
- **These buses will be branded as 'City bus Feeder' services**

Logistics - Integrated Traffic Management System

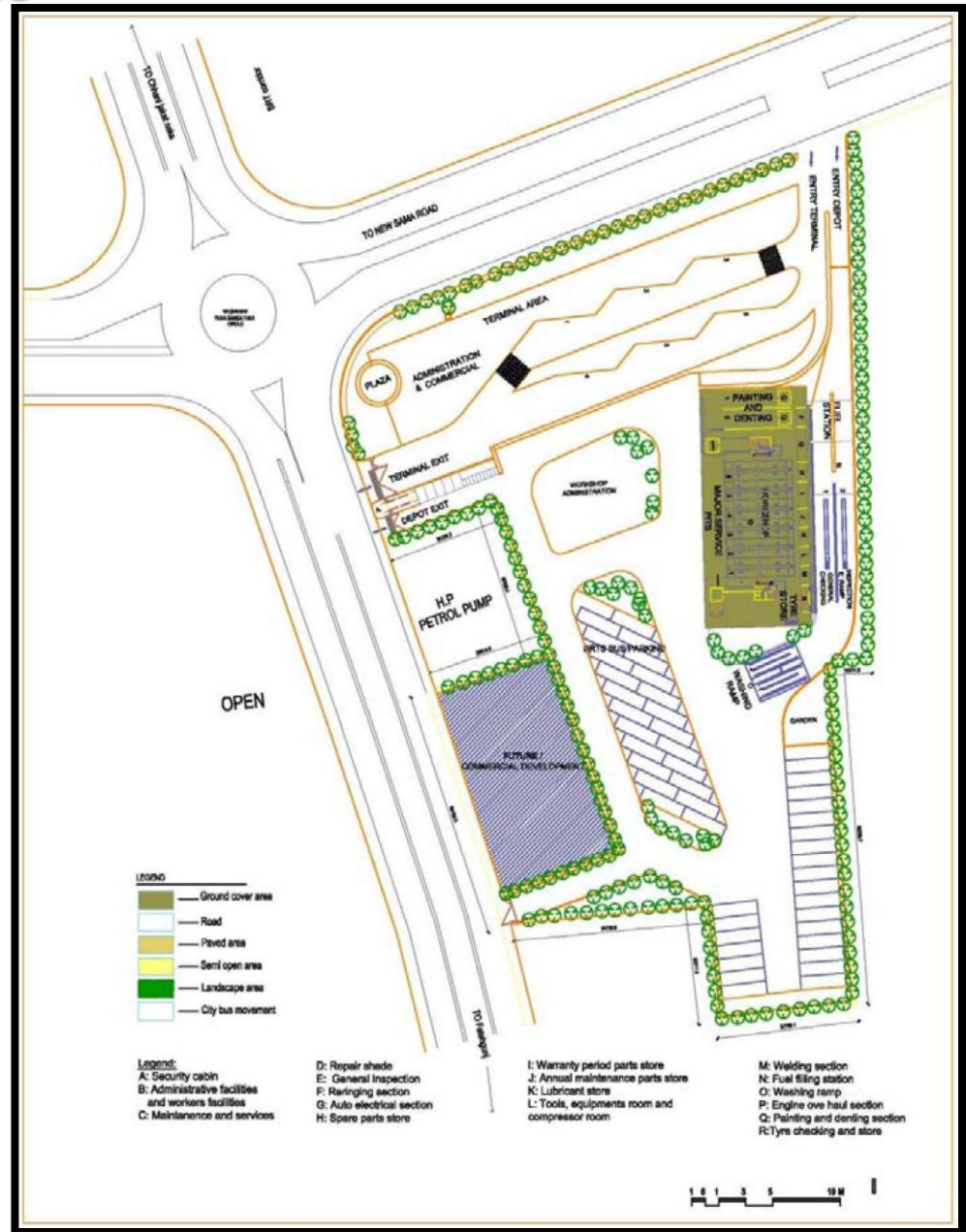
- Various sub-levels of ITMS are:
- Vehicle Scheduling and Dispatch System
- Automated Vehicle Location System
- Passenger Information System
- Bus Terminal Management System
- Automated Boarding Gates and Electronic Docking System
- Automated Fare Collection System
- Financial Management and Central Clearing House System
- Incident Management System
- Video surveillance system



Bus Depot cum Terminals

- Considering three cases:
 - **Case 1** - Single depot terminal at suitable location
 - **Case 2** - Two depot terminals at North-south or East-west location (Nizampura & Makarpura)

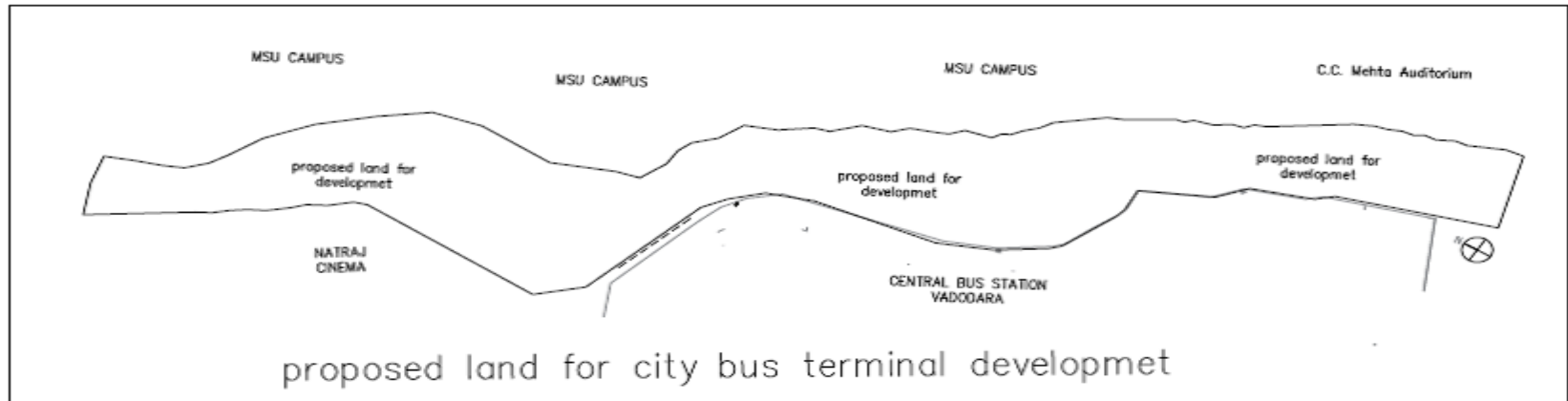
- **Case 3** - Four depot terminals in all four direction at suitable location (Nizampura-Makarpura & Gotri-Waghodiya)



Nizampura (20,000 sqm)

Integrated Smart city Transport Hub

- Approximate Land area available for development is 10,500 sqm.
- Minimum 18 numbers of city bus bays will be required to be constructed.
- Commercial facility like shops, parking, canteen other recreational areas will be provided
- To provide arrange integrated facility to the citizens of Vadodara regarding pedestrian and public safety around City Bus Terminal, GSRTC's bus station and Railway Station
- To provide adequate horizontal and vertical safe public movements using integrated terminals facilities, avoiding city road & heavy traffic, so that minimum use of city road is done by passengers



Public Bicycle Sharing

- Presentation to VMC by all (6) agencies completed. And EOI is under evaluation
- Estimated Project Cost Rs. 6 Crore.



Phase	Area	Cycle	Docks	Station
I	6 sq. kms	500	750	40
II	4 sq. kms	500	750	60
Total	10 sq. kms.	1000	1500	100

Solar Pick up Bus Stand



- Project Cost Rs.6 lacs per Bus Stand (presently two numbers installed on pilot project basis)
- SS Material, seating Arrangement, Solar energy powered lighting with power backup, Mobile Charging Facility, TV for public awareness messages

Pick up Bus Stand- PPP Mode



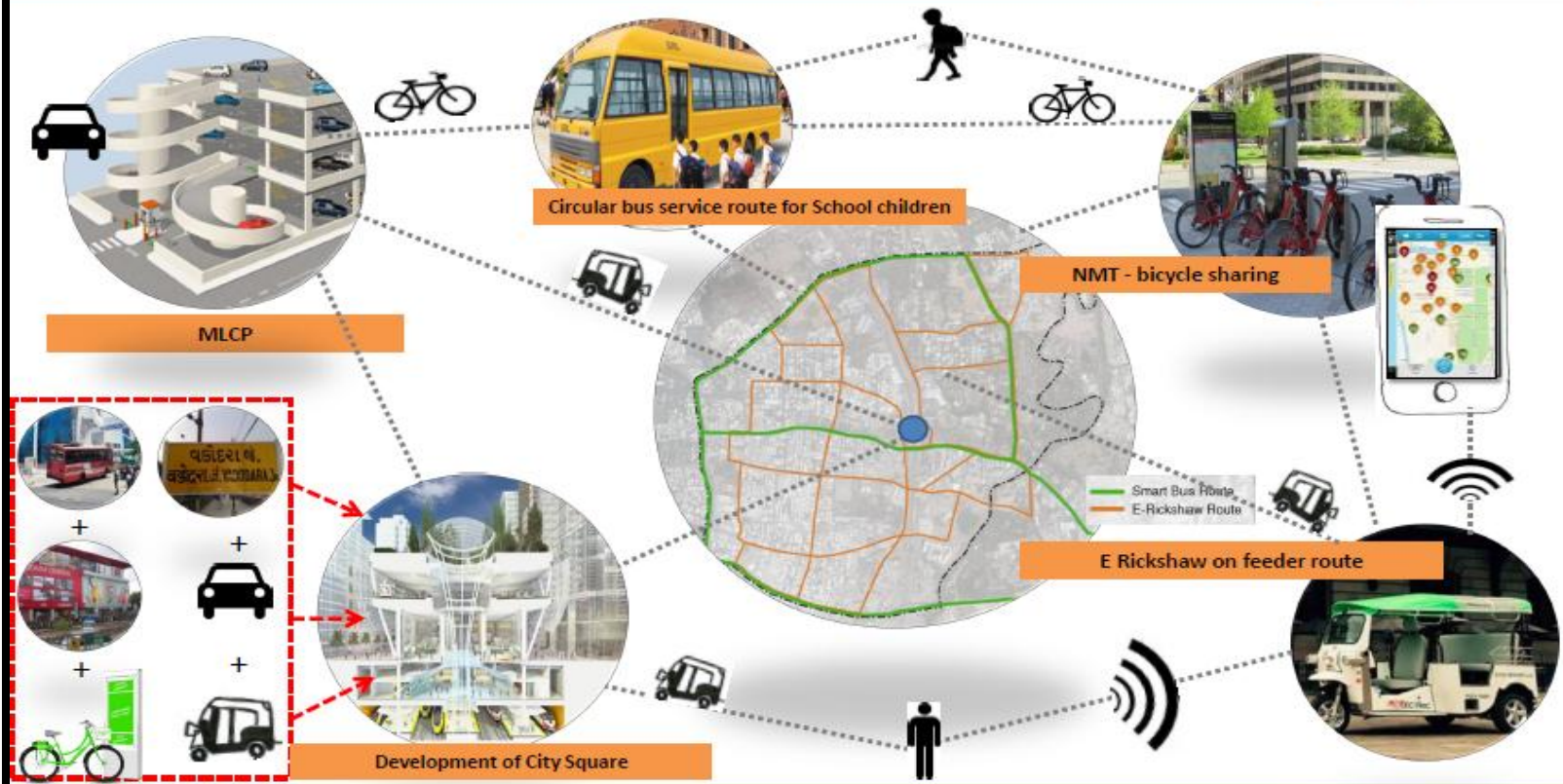
- Provision of protection against seismic forces as per relevant IS codes for structure in Gujarat.
- 20 nos of pick up bus stand on PPP mode are upgraded and further are in pipeline.
- Mobile Phone/Laptop Charging facility.
- Digital Display for bus route and shall be GPS enabled.

Future planning

VADODARA SMART CITY PROPOSAL

2.4 IMPROVE URBAN MOBILITY

ANNEXURE 3



Thank you...