

E-RICKSHAWS: THE FUTURE IN INDIAN CITIES



ROLE OF E-RICKSHAWS IN CITIES

**Feeder Service
to Public
Transport in
Metro Cities**

**Public
Transport in
Small &
Medium Towns**

**Mode of
transport for
Tourist places**

EXISTING SITUATION



E-rickshaws in Amritsar



E-rickshaws in Agartala



E-rickshaws in Kanpur

KEY FEATURES

Eco-friendly

Unregulated System

IPT Mode

Rapidly increasing
number of e-
rickshaws



PASSENGER ISSUES

Overloading (27%)

Lack of Safety (30%)

No Parking/ Boarding Space



E-Rickshaw parked along road side



Overloaded e-rickshaws



E-rickshaws stopping in middle of roads to board passengers

PROBLEMS

Absence of Regulatory Framework for e-rickshaws

No Economic Stability for drivers

Lack of Social Benefits for the drivers

Lack of Financial Support



E-rickshaws in Delhi



E-rickshaws in Agartala



E-rickshaws in Kanpur

PROBLEMS

**Infrastructure facilities
Missing (Parking, no
charging stations etc.)**

**Lack of usage of
Modern Technology
(ITS)**

**Outdated Vehicle
Technology**

**Lack of Self Owned e-
rickshaws**

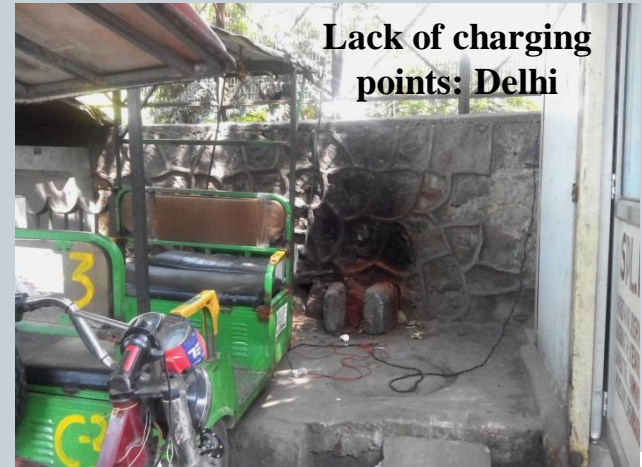
**No institution for e-
rickshaws**



Parking on road sides: Roorkee



**Poor condition of e-rickshaws in
Kanpur**



**Lack of charging
points: Delhi**

FUTURE AREAS OF IMPROVEMENT

Economic Stability to drivers

Cheaper/ subsidised loans

Rent Fixation

Optimum Fare Structure

Providing Social Security under different schemes

Setting-up of Local Repair Workshops

Higher revenue through advertisement, aggregator model etc.

Regulatory Measures

Registering optimum no. of e-rickshaw in a city

Strong Enforcement of rules

FUTURE VEHICLE TECHNOLOGY



GPS



Control Room



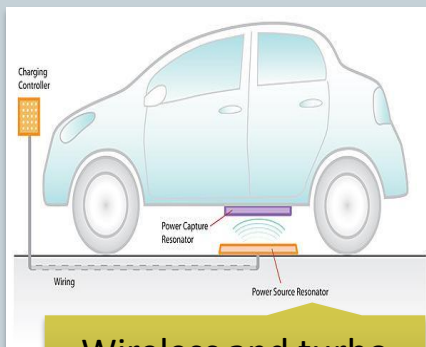
E-challans



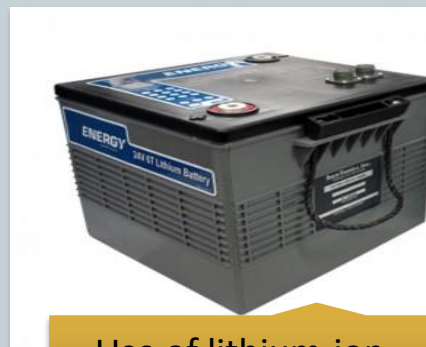
Panic Button



Future technologies like solar e-rickshaws



Wireless and turbo charging



Use of lithium-ion batteries



Hybrid e-rickshaw

Social Benefits to Drivers (Available schemes)

Pradhan Mantri Suraksha Bima Yojana

Pradhan Mantri Jan Dhan Yojana

Atal Pension Yojana

Sarva Siksha Abhiyan

Provision for Free medical check-up

Setting up of e-rickshaw unions

Institutional framework Like Special Cell (Suggested Functions)

Regulation

Assisting in providing social benefits

Driving skill & education

Providing Infrastructure

Monitoring system

Providing various revenue options

Introducing NewTechnology

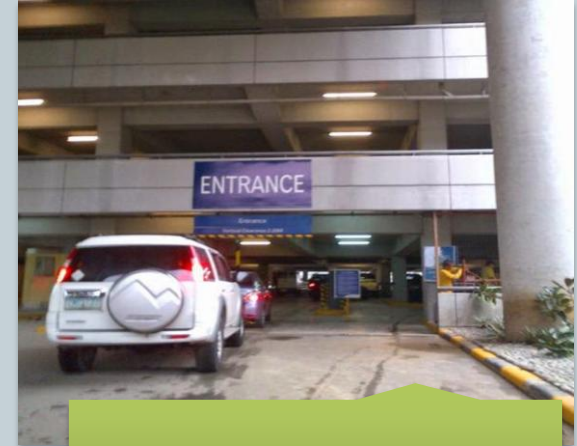
INFRASTRUCTURE FACILITIES



Stands Facilities



"Halt and Go" Stands



Night Parking



Providing integrated charging points for alternate modes



Regulating Vehicle Parking away from junctions

THANK YOU