Presentation
on
Planning Urban Transport Infrastructure
in
Hyderabad Metropolitan Area

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SALIENT FEATURES OF HMA

- Area - 7228 Sq. km
- Road Network - 5,400 km
- Population: 2016 - 10.88 M
- 29.6% of State population
- Employment: 2016 M - 4.7 (WFPR: 0.43)

**Mode Share 2016**

- Public Transport: 31%
- Cars: 9%
- TW: 42%
- IPT & Taxi: 18%

**Districts - Then**
1. Hyderabad
2. Part of Rangareddy
3. Part of Medak
4. Part of Nalgonda
5. Part of Mahbubnagar

**Districts - Now**
1. Hyderabad
2. Medchal
3. Part of Rangareddy
4. Part of Medak
5. Part of Siddipet
6. Part of Sangareddy
7. Part of Yadadri

Legend:
- MCH
- GMC
- NDA
- CDA
- LAVANGAM
- RED TANK REVENUE
- EXTENDED AREA HMA
- City Boundary

Jurisdictions of HMA
PUBLIC TRANSPORT NETWORK

**BUSES - TSRTC**
- Most prominent PT network in HMA - 795 Routes

**MMTS NETWORK (Since August 2003)**
- Integrated with Metro Stations and Bus stations
- Automatic Ticket Vending Machine at Stations

<table>
<thead>
<tr>
<th>Type</th>
<th>Fleet Size</th>
<th>Ridership</th>
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<tbody>
<tr>
<td>BUSES</td>
<td>2,856 i.e., 1/3 of the State share.</td>
<td>33.04 Lakhs/day</td>
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<td>40 Electric Buses with four loops to Airport. (1.4% of Fleet)</td>
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<td>MMTS</td>
<td>Two routes – 3 lines comprising of 46 km with 26 stations</td>
<td>2.2 Lakhs/day</td>
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**MGBS Bus Station**

**Bus Network in HMA**

**MMTS Network in HMA**
- World’s largest Metro Rail project in PPP mode
- Ridership 4 Lakhs/ day (+) as on Jan ’20
- 3 high density traffic corridors (72 km – 69 km) taken up in Phase I
- Miyapur – L.B. Nagar – 29 km; 27 Stations
- Nagole – Raidurg – 28 km; 23 Stations
- JBS – Falaknuma (upto MGBS) - 15 km (11 km); 15 (10) Stations
- Stations – 64 & Interchanges – 3
SALIENT FEATURES ......

- Integration with existing Rail terminals, MMTS & Bus Stations
- An urban redesign & rejuvenation effort transforming Hyderabad into a people friendly green city
- ‘Transit+’ concept: Last mile connectivity with NMT, pedestrian facilities & street furniture
- Eco-friendly stations with natural ventilation, ramps, escalators, elevators
- Property development through use of air space.

Buses, MMTS & Metro - contributes to 32% of Trips in HMA as on 2016
**CHALLENGES IN TRANSPORT SCENARIO**

- Major Share of Private Vehicles (51%)
- Involvement of Multiple Agencies
- Lack of Integration & Standardization
- Challenges of funds
- Lack of Sensitivity towards Non-Motorized Transport
- Absence of Integrated Development
- Need Qualified Professionals
WHY HUMTA?

- PLANNING
- POLICY
- INTEGRATION
- IMPLEMENTATION
- FUNDING STRATEGY
- E-MOBILITY
- NON MOTORIZED TRANSPORT
- STANDARDIZATION
Vision Plan-Recommendations of Comprehensive Transportation Study for HMA
PROJECTIONS (2016 TO 2041)

POPULATION FORECAST

EMPLOYMENT FORECAST

GROWTH SCENARIOS

Trend Based Scenario  Multi – Nuclei Based Scenario  Transport link Based Scenario

Employment (2041): 9.3 M, WFPR: 0.48
RECOMMENDATIONS

Transport Network 2041

- Hierarchical Road Network - 1900 km
- Metro - 204 km
- LRTS/ Metro lite - 137 km
- MMTS - 264 km
- Exclusive Bus lanes/ BRTS/ Tramway - 362 km
- NMT Network - 450 km
- Promote Electric Mobility
- Terminals:
  - ICBT/ ISBT (#7); ICRT (#4)
  - Truck Terminals/ Logistic Hubs (#13)
  - Multi Modal Transport Hubs

Public Transport is the Priority
BENEFITS

- Level of Service to Improve.
- NMT share from 28% in 2016 to 45% in 2041.
- Private Vehicle Share from 51% in 2016 to 24% in 2041.
- Enhance PT – 32% (2016) to 57% in 2041.
- Socio-Environmental benefits - reduced pollution.
- Improved Accessibility to Public Transport.
- Sustainable and Integrated Transport System.

### Travel Speed in HMA, kmph

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<tr>
<th>Year</th>
<th>GHMC</th>
<th>RoHMA</th>
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<tbody>
<tr>
<td>2016</td>
<td>18.9</td>
<td>23.1</td>
</tr>
<tr>
<td>2026</td>
<td>19.7</td>
<td>25.5</td>
</tr>
<tr>
<td>2031</td>
<td>34.0</td>
<td>37.2</td>
</tr>
<tr>
<td>2041</td>
<td>35.8</td>
<td>39.8</td>
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### Mode Share 2041

- Private Vehicle, 24.1%
- Public Transit, 56.8%
- Auto & Taxi, 19.1%
North-South Mobility Corridor & Charminar Accessibility Study - New Generation Tramway

- Through **AFD funding**
- NGT Corridor - JBS to Charminar – 10.4 km
- Integration with **Metro Green line @ JBS & @ Shahalibunda**.
- Expected ridership **2030 : 3.53 Lakh Pax/day**
LRTS - Financial District to Kokapet

- Corridor length - 12 km approx.
- Extension of LRTS from KPHB to Financial District.
- Integration with:
  - Red Line @KPHB Metro Station
  - Blue Line @Raidurg Metro Station
  - Airport Express Corridor @Narsingi
- Stabling yard near Gungurthy village.
- Multimodal & Integrated Development.
- Expected ridership 2033: 4.13 Lakh Pax/day
Ropeway/ Tramway Projects

Urban Mobility Corridor in HMA:
- Along Musi River: MGBS to Zoological Park (5.5km)
  - Integration @ MGBS Metro Station.
- East – West Corridor: Khairatabad - Secretariat - Assembly – Paradise (8.4km)

Tourism Corridor (Ropeway):
- Raigiri to Yadagirigutta Temple City (5.3km)
  - Integration @ Raigiri Railway Station
  - Proposal to develop Eco-Tourism Park in the connecting hill
INITIATIVES by HUMTA......

KHAIRATABAD - SECRETARIAT - ASSEMBLY - PARADISE

Khairatabad To Paradise – 6.7 Km
Assembly To Secretariat – 1.7 Km
One Telangana Card/ Common Mobility Card - Seamless Travel

- Existing travel modes with ridership:
  - RTC buses - 33 lakhs
  - Metro Phase-I - 4.5 lakhs
  - MMTS – 2 lakhs
  - Taxi/ auto

- Future modes
  - Metro Phase-II
  - MMTS Phase-II
  - New generation Tramway
  - Light Rail Transit System (LRTS)
  - Ropeway system

HUMTA, GoT - Coordinating Agency - stakeholders
- HMRL, TSRTC, MMTS, ITE&C Dept, Cabs etc.,
IT E&C Dept., GoT - Nodal Agency -
- Procurement, Implementation & Maintenance.
**CO-ORDINATION PROJECTS BY HUMTA**

- **External Funding**: Co-ordination with funding agencies for procurement of E- Buses (TSRTC)
- **CCTV Cameras Network** for Public safety and Security specific to Transport Sector –
  - Metro Stations
  - MMTS & Railway Stations
  - Bus Station & Depots
  - Vehicular Under Passes
- **Road Safety and Traffic Improvement**
- **Standardization of Road Signage**
Online Commuter Survey: Impact of Covid-19 on travel behaviour

- 2460 samples received
- Major Takeaways:
  - Reluctance to use Public Transport (83%)
  - Shift to Private Mode observed.
- Preferences:
  - Work from Home
  - Staggered working hours (8 AM to 4 PM) – 22%
- Willing to Shift to Cycling & Walking
- 65% Females willing to cycle upto 5km

Willingness to use Public Transport:
- Before: 52.0% Yes, 48.0% No
- After: 83% Yes, 17% No
Online Perception Survey: Cycling survey in Hyderabad

- 6419 samples received
- Major Takeaways:
  - Purpose of cycling – Exercise
  - Willing to cycle – provided cycling infrastructure in place
    - Male - 27%, Female - 22%
  - Willing to cycle upto 5km after providing cycle tracks
    - Male - 36%, Female - 58%
  - Major concerns of cycle enthusiasts
    - Traffic Segregation & Parking
    - Lack of Cycle Infra
  - Notify NMT Policy by Feb 2021.
Non-Motorized Transport Network

- India Cycles4Change Challenge (MoHUA Initiative)
- Khairtabad Zone – Pilot Corridor - 5.82 km
  - Begumpet MS to NTR Marg via Raj Bhavan Road
  - Submission of the Implementation Report to Govt. of India (GoI)
- As last mile connectivity & to promote work-trips

- Cycle Tracks under implementation
  - Necklace Road {HMDA}
  - Tank Bund Road {HMDA}
  - Around KBR Park {GHMC}
INITIATIVES by HUMTA .....
IMMEDIATE SCALE UP PLAN – 163 km

Immediate implementation of 163 km cycle length in HMA
 INITIATIVES by HUMTA 

- Provision of NMT Facilities in new and upcoming areas
  - Kokapet,
  - Hyderabad Knowledge Centre.

- NMT -
  - As last mile connectivity
  - To promote work-trips

- Immediate implementation Plan - 163 km corridor

- Target of 450 km by 2031.
E-MOBILITY - Policy


- Govt. of Telangana – Vision
  - Make Telangana an EV Manufacturing Hub by 2030.
  - 100% EV adoption by 2030 across product categories.

- Incentives:
  - 100% exemption of road tax and registration fee for early birds.
  - Exemption of registration charges - private vehicles till 2025.
  - Interest Free loans up to 50% of the cost to all state government employees for purchase of EVs.
  - Free Parking in public parking places and Toll exemption

- EV Cluster:
  - Over 1500-2000 acres for EV manufacturing at the proposed Automotive Park.
EVCI (E-Vehicles Charging Infrastructure):
- **178 Charging Stations by 2021:**
  - Fame I - 40 (Existing)
  - Fame II – 138.
- **Entry / Exit of Outer Ring Road**
- **Parks and Parking lots.**
- **Other potential Locations:**
  - Metro stations,
  - Bus terminal,
  - Multimodal Hubs,
  - Upcoming Urban Centres –
    - Knowledge Centre,
    - Financial District,
    - Kokapet etc.
**INITIATIVES by HUMTA .....**

**Actions Taken**

- Workshop conducted to sensitize all stakeholders about EV&ESS policy.
- Steering Committee formed.
- Coordinating with TSREDCO – EVCI sites.
- **Online demand assessment survey for EV – in progress.**
- Draft Amendments to building by-laws, DCRs/ ECBC for EV ready buildings is in progress.
- A Preliminary meeting with CREDAI held on November 21st to seek their inputs.
Procurement of E-Buses:

- **PUSHPAK Airport Liner** - 40 buses to RGI airport
- **TSRTC Buses**
- 100% migration of the fleet to **e-Buses** by 2030.
  - Fleet size of **e-Buses 4300**
  - **EVCI** for - 27 depots and at 11 **Terminals**
- Conversion of Existing **Diesel Buses to e-Buses**.
- Co-ordination with funding agencies for procurement of **E- Buses**.

INITIATIVES by HUMTA .....
CONCLUSION

- Generation of additional employment
- Enhances the socio economic benefits
- Gender Equality
- Enhance Quality of Travel
- Focus on Public Transportation
- Sustainable Transportation
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