



Technical Session : Public Transport Options for Small and Medium Cities

State wide Implementation of Cluster Based Bus Transit System as per Hub & Spoke Model in Madhya Pradesh (MP) under PPP mode.



*Directorate of Urban Administration and Development
Madhya Pradesh*



PROLOGUE

1. Small & Medium Towns

- a. There are 7, 935 towns in the country (Census 2011)
- b. The number of towns has increased by 2, 774 since last census.

2. Main Issues / Challenges

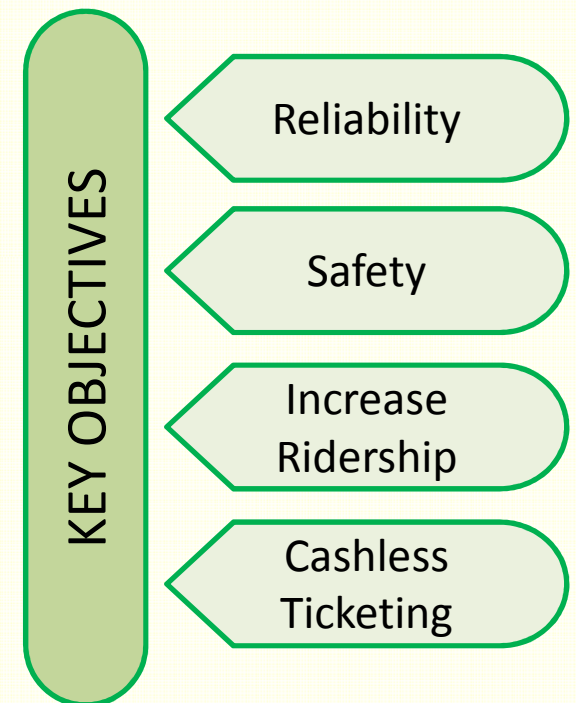
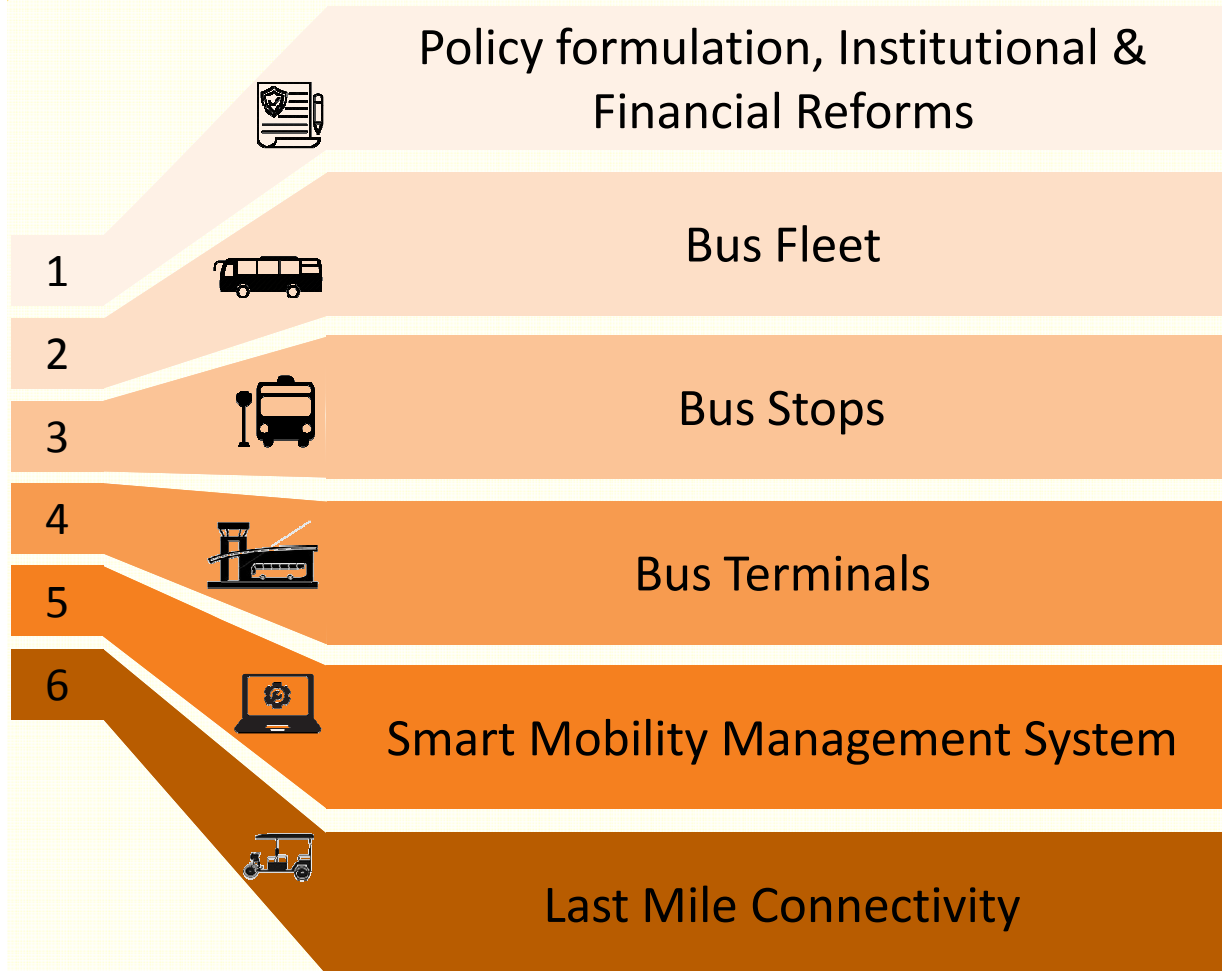
- a. Affordability towards a sophisticated system
- b. Required ridership for operating public transport service viably is less probable
- c. The infrastructure required for establishing a Bus System, will be capital intensive and even the recurring cost (O&M) will be substantially high
- d. The issues related to Right of Way (RoW) in the small and medium towns is also a cause of major concern



State unified Urban
Transport Redevelopment
Augmentation Service
Equality Value Accessibility

SUTRA-SEVA

PROJECT COMPONENT



POLICY FORMULATION, INSTITUTIONAL & FINANCIAL REFORMS

1. Single department to deal with Urban Transport

- a. Assigning role of Urban Transport to one department of the state.
- b. Creation of 20 SPVs for implementing and monitoring the system for 20 cities of MP.
- c. Board of Directors of the SPV are SP, Collector, RTO, Municipal Commissioner / CMO.
- d. Provision of adequate resources (physical, financial & staff).

2. Dedicated Urban Transport Fund (DUTF)

- a. Provision for multiple revenues on recurring basis.
- b. Creation of Fund Management System.
- c. DUTF Policy

3. Policy Reforms

- a. State Parking Policy and Rules - Ensuring no free parking in city
- b. Advertisement Policy - Banning hoarding on private properties

FUNDING PATTERN (BUS FLEET)

Bus Fleet
(Own, Operate & Maintain)

Private
Operator
(60%)

Max 40%
VGF from
AMRUT

- Bus ownership remains with operator
- Operation and maintenance to be done by operator
- Bus Stop/ Bus terminal and Depot facility to be provided by the Government
- Route permit ownership remain with Government
- Advertisement revenue share of 80:20 (Op : GoMP)

CROSS-SUBSIDIZATION (BUS OPERATOR)

Average Earning for intra-city buses : 23.15 Rs/km (Ticket Sale, Pass)

Average cost for intra-city buses : 24.96 Rs/km (EMI, O&M, Fuel Cost, Permit, Tax, Depreciation)

Hence, the **intra-city buses** are being operated at a **loss of 1.81 Rs/km**

Average Earning for inter-city buses : 35.53 Rs/km (Ticket Sale, Pass)

Average cost for inter-city buses : 31.37 Rs/km (EMI, O&M, Fuel Cost, Permit, Tax, Depreciation)

Hence, the **inter-city buses** are being operated at a **profit of 4.16 Rs/km**

All the routes have been divided into clusters. Each set of cluster contains both intra and inter city routes.

FUNDING PATTERN (BUS STOPS & TERMINALS)

Bus Stop (Build, Operate, Transfer) :

Private player to develop, operate and maintain the bus stop and pay fix advertisement license fees per bus stop per month to the authorities. There will be increase in license fees by 10% every year.

Bus Terminal (EPC Mode) and (Design, Build, Own, Operate, Transfer):

- For EPC mode, the revenue is paid to cities from DUTF account and by special grant from state government.
- For PPP mode, private player will design, develop, operate and maintain the terminal on lease basis. Development rights of commercial activities will be given to private player.

FUNDING PATTERN SMART MOBILITY MANAGEMENT SYSTEM (SMMS)

- Private operator is handed over the **APP Based** ticket selling rights and is allowed to charge fix service charges per ticket.
- Private operator will share the revenue with the state government which will cross- subsidize the hardware components

Engagement Model

- Pay-for-Performance
- Rapid Changes in Technology and Transport Needs

Year	Ridership increase to be achieved by successful bidder
1 st	X
2 nd	X+7%
3 rd	X+15%
4 th	X+20%
5 th	X+25%
6 th	X+30%
7 th	X+35%

LAST MILE CONNECTIVITY

1. Provision of organized E-Rickshaws, Auto Stands at bus terminals
2. Provision of safe cycling zones in cities.



SELF-SUSTAINABILITY

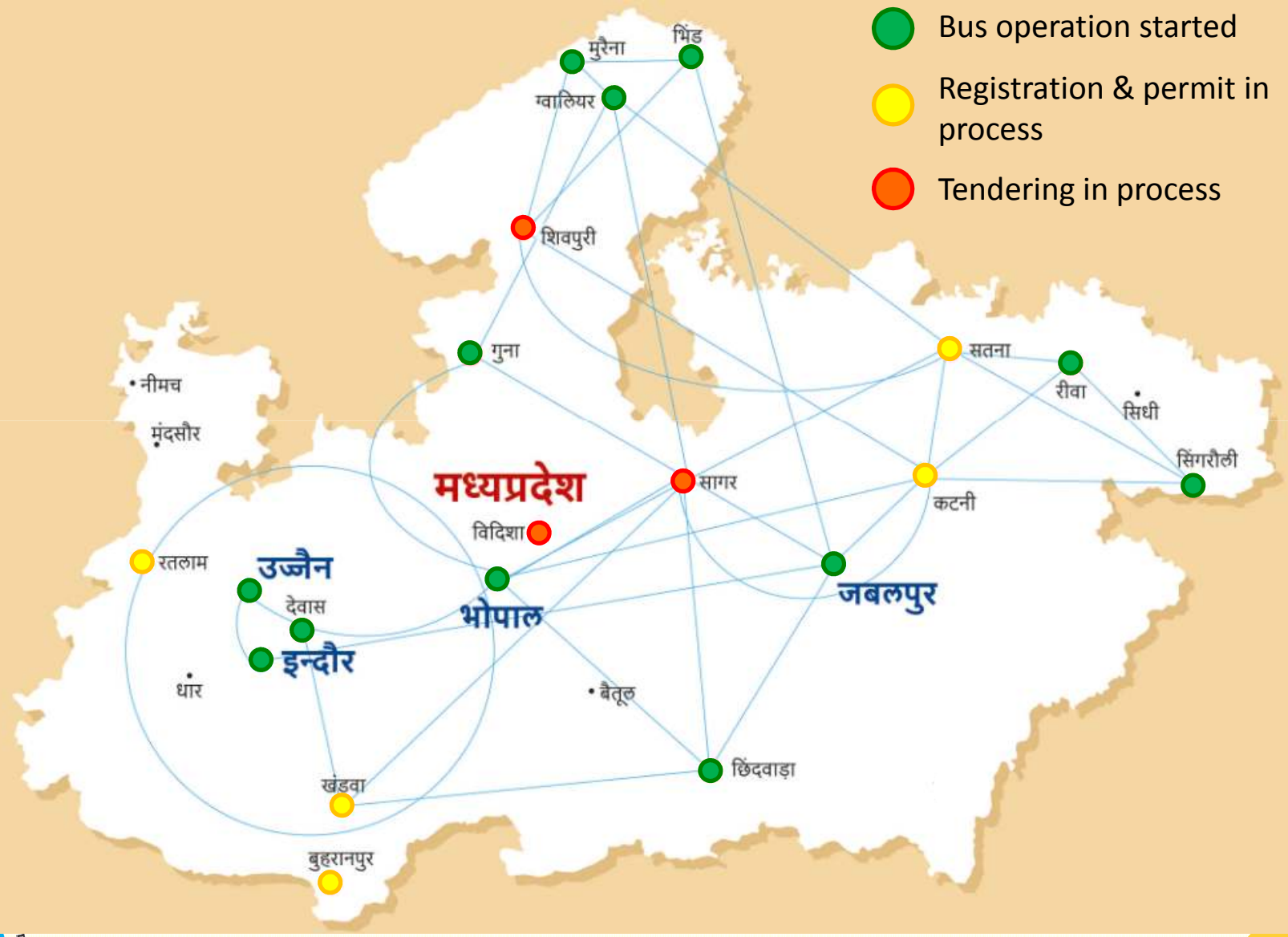
- M.P. has a huge lobby of private operators, some of whom are ready to pay **premium** on certain Inter-city routes under the banner of “Sutra-Seva”. This premium will help in subsidizing the intra-city bus operation.
- After the 7 years of agreement, the system will be well set across the state and with **ownership of permits** remaining with SPVs, further revenue generations can be attributed to the SPVs.
- The **C-DUTF** policy have opened gates for city to generate revenue from various sources like advertising (minimum 25%), parking (minimum 25%), betterment charges, development charges, green tax etc.
- Timely O&M of all services are an integral part of long term sustainability of the system.
- Mandating SMMS service provider to improve the ridership with the interest of revenue sharing.

PROJECT OVERVIEW : Bus Fleet, Stops & Terminals

S. No.	City	Population (Census 2011) (Lakhs)	No. of Clusters	Inter City Buses	Intra City Buses	Bus Stop Development	Bus Terminal
1	Ujjain	5.16	3	26	12	50	1
2	Dewas	2.90	4	50	18	45	1
3	Satna	2.80	3	60	20	55	1
4	Sagar	2.73	5	38	45	56	1
5	Ratlam	2.65	3	29	18	33	1
6	Rewa	2.36	3	70	25	44	1
7	Singrauli	2.27	2	25	14	35	1
8	Katni	2.22	3	28	34	57	1
9	Burhanpur	2.11	3	31	11	28	1
10	Khandwa	2.01	3	34	16	36	1
11	Morena	2.00	2	28	11	15	1
12	Bhind	1.98	3	31	9	40	1
13	Guna	1.81	2	69	14	19	1
14	Shivpuri	1.80	3	48	15	17	1
15	Vidisha	1.56	4	54	30	49	1
16	Chhindwara	1.38	4	43	9	61	1
Total		30.76	51	664	301	640	16
				965			

A total of 55 Cr. have been provided to these cities. Out of this, 12 Cr. have been provided as VGF for fleet and rest 43 has been provided for development of terminals.

PROJECT OVERVIEW



CONVERGENCE

1. Pradhan Mantri Awas Yojna (PMAY)

- a. Housing has been provided for drivers and conductors, to ensure their social upliftment.

2. Swatch Bharat Mission (SBM)

- a. Construction of public toilets at bus terminals.

3. National Urban Livelihood Mission

- a. Operation of E-Rickshaws have been started in 70 cities of Madhya Pradesh.
- b. Provision of dedicated formal spaces for hawkers nearby bus terminals.

4. Others

- a. Fruits and vegetables waste generated at Choithram Mandi is collected and processed at Bio CNG plant.
- b. Around 800 kg of purified and compressed Bio CNG with 95% pure methane gas is generated everyday.
- c. This is used as fuel to operate 15 city buses.

BENEFITS

Social

Reliable and organized mode of transport.

Welfare programmes for drivers and conductors

Special provisions (ramps, dedicated seats, etc.) have been provided for differently abled persons

Special features for women safety (panic button, cameras)

Lady conductors in small and medium towns

Environmental

Increase adoption of bus system as a mobility option for small and medium towns.

Reduction in pollution through adoption of E-Rickshaws for last mile connectivity under NULM scheme.

Economical

Increase in organized commercial spaces around bus terminals.

Acts as support infrastructure to bring about development in these small and medium towns

FUTURE PLANS

1. **Broadcast** new inter city routes **on radio and local newspapers** which will have wider outreach. Specially target economic zones like Krashi Upaj Mandi for broadcasting in order to have a **wider peri-urban outreach**.
2. Need for **Public Service Guarantee Act** for small and medium towns which will **encourage accountability** of Public Transport.
3. Formation of **co-ordination committee** for the SPVs for **faster approval** of permits and other processes.
4. Increase fleet of **electric buses, electric rickshaws** and accordingly develop its support infrastructure (charging infrastructure). Formulation of state wide EV policy.

FUTURE PLANS

5. Connect to **Krashi Upaj Mandi** where **farmers** from nearby places can park their tractors and **avail intra-city buses / E-Rickshaws to access facilities within the city.**
6. Fix **operational timings of heavy vehicles** within the cities (No entry during day hours).
7. **Banning private vehicles** and use of **E-vehicles** in and **around local popular tourist centers.** This will help generate **local economy** as well as keep congestion and pollution at bay.

BUS INAUGURATION



DRIVERS & CONDUCTORS



TERMINAL & FACILITIES



BUS DEPOT



इंदौर

सफर होगा आसान | 20 शहरों के लिए मिलेंगी इंद्रा और इंटर सिटी बसें, इनमें इंदौर के लिए 260 मप्र में सरकारी बसों की शुरुआत इंदौर से 23 जून को पीएम मोदी करेंगे, चलेंगी 1600 बसें

सूत्र सेवा के तहत 10 और वसें सड़क पर उतरी, जीपीएस सिस्टम से की जा रही है 52 बसों की निगरानी

जुआ सेवा के तहत 10 और वसें सड़क पर उतरी, जीपीएस सिस्टम से की जा रही है 52 बसों की निगरानी

आर.एस.एस. | 23 जून 2018, 11:30 AM



यहां बसों में तीन हजारों लोगों में की नियुक्तियां

संयोजित से बसों, संचालन की गति सुनिश्चित की जा रही है। बसों में जीपीएस सिस्टम से निगरानी की जा रही है।

MADHYA PRADESH GOVERNMENT LAUNCHED SUTRA SEVA BUS SCHEME

The Bus Service (Sutra Seva) is a initiative of Madhya Pradesh Government. The initiative will help transport services to connect the rural areas to the urban areas. The Madhya Pradesh Government and Ministry of Transport will make this successful by using modern technology and providing the services to the people. The initiative will be implemented in 20 cities across the state.



In the first leg of the project, 100 buses will start plying in the rural areas of the state. The project will be implemented in 20 cities across the state.

Free Rakhi ride for women on 'Sutra Seva' buses

The bus service started today, will take 7.5 hrs to reach Jabalpur from city



Bhopal: Bhopal City Link Limited (BCLL), a holding company of Bhopal Municipal Corporation (BMC), started the initiative to 'Sutra Seva' on Saturday. Under the project, six buses will run between Bhopal and Jabalpur, although the service has begun with two buses for now. BCLL has decided to allow women passengers to travel for free on August 20, on the occasion of Raksha Bandhan.

When to board the bus?
The bus will be available every day 12 pm and tickets to Jabalpur will cost Rs 100 each, while every ticket to Sugar will cost Rs 80. The AC buses will cover distance between Bhopal and Jabalpur in 7.5 hours.

What is Sutra Seva?
'Sutra Seva' MPRL and this is an initiative of Bhopal Junction Christian's government which was launched by PM Modi on Aug 21, 2018, under AMRUT scheme following a hub and spoke model. The first phase of the project will start plying in four cities.

आसान होगा सिटी ट्रांसपोर्ट • आज से आम यात्री सिटी बस से इंदरगंज चौराहा से दीनदयाल नगर रूट पर सफर कर सकेंगे पहली बार सिटी बस में सवारी की चाहत, 39 की बजाय 50 लोग चढ़े, मेयर को भी नहीं मिली जगह

सिटी बस: 10 साल बाद फिर सफर हुए मंत्री • 2008 में शुभारंभ के बाद हो गई थी बंद



सिटी बस में सफर करने वाले यात्री। (ए.एस.एस.) सफर आसान करने के लिए सिटी बसों को शुरू किया गया है।

सिटी बसों में सफर करने वाले यात्री। (ए.एस.एस.)

सिटी बसों में सफर करने वाले यात्री। (ए.एस.एस.)



भोपाल

सागर, रविवार 30 सितंबर, 2018 | 10

मध्यप्रदेश के 20 शहरों के बीच 20 कंपनियां चलाएंगी 1600 बसें

पॉलिटिकल रिपोर्टर | भोपाल

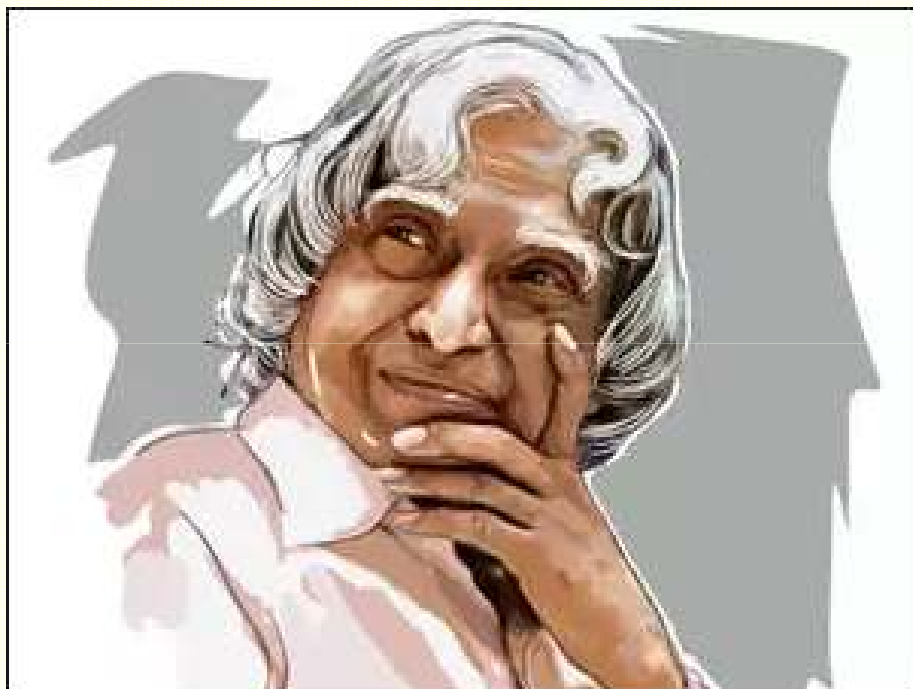
नेशनल अर्बन ट्रांसपोर्ट पॉलिसी के तहत शहरों के बीच ट्रांसपोर्ट सर्विस शुरू करने की योजना के तहत...

सप्ताह पहले भी रिजर्वेशन कराया जा सकेगा। बसों का संचालन करने वाली कंपनियों को सात साल का कांटेक्ट मिलेगा। ये कंपनियां नगरीय...

पूरी तरह लागू होने में अभी 4-6 माह का वक्त लग सकता है। तब तक राज्य बीमारी सहायता कोष को भी जारी रखा जाएगा। साथ ही गरीब वर्ग के साथ-साथ संबल योजना में रजिस्टर्ड हो चुके 1.20 करोड़ लोगों को भी इस योजना में शामिल माना जाएगा।

PURA

Provision of Urban Amenities to Rural Areas



Dream of our former Hon'ble President Lt. Shri APJ Abdul Kalam to provide livability standards to the commons can be successfully achieved through efficient mobility, which is an important factor of livability index developed by MoHUA, GOI.

“Shared mobility has a manifold impact on social, economical and environmental aspects”



“Mobility not only moves people but also mobilizes economy”