

SMART CITIES IN INDIA 2018

Segment Analysis, Outlook and Opportunities

- ❖ Report (PDF)
- ❖ Data-set (Excel)

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1. Executive Summary

SECTION I: OVERVIEW AND PROGRESS UNDER SMART CITIES MISSION

2. Overview

- ❖ Key Aspects and Features
- ❖ Smart Cities Mission
 - Coverage and Duration
 - Selection Process and No. of Cities Selected from Each State
 - Update on SPV Formation
 - Progress So Far
- ❖ Institutional Framework
- ❖ Recent Developments (past 15-18 months)
- ❖ Union Budget 2017-18 - Key Announcements
- ❖ Investment Requirements
- ❖ Issues and Concerns
- ❖ Outlook and Projections till 2025-26

3. Round I - First 20 Cities

- ❖ Key Details of Selected 20 Cities - Population, Households, City Area, Rank, Score, ULB, SPV, etc.
- ❖ Current Status of Infrastructure
- ❖ Investment Requirements
- ❖ Key Sources of Funding
- ❖ Progress on Projects (Announced/Proposed, Under Implementation, Completed)
- ❖ Upcoming Tenders
- ❖ Outlook and Opportunities (till 2025-26)

4. Fast Track Competition - 13 Cities

- ❖ Key Details of Selected 13 Cities - Population, Households, City Area, ULB, SPV, etc.
- ❖ Current State of Infrastructure
- ❖ Investment Requirements
- ❖ Key Sources of Funding
- ❖ Progress on Projects (Completed, Under Implementation, Announced)
- ❖ Upcoming Tenders
- ❖ Outlook and Opportunities (till 2025-26)

5. Round II - 27 Cities

- ❖ Key Details of Selected 27 Cities - Population, Households, City Area, ULB, SPV, etc.
- ❖ Current State of Infrastructure
- ❖ Investment Requirements
- ❖ Key Sources of Funding
- ❖ Progress on Projects (Announced/Proposed, Under Implementation)
- ❖ Upcoming Tenders
- ❖ Outlook and Opportunities (till 2025-26)

6. Round III - 30 Cities

- ❖ Key Details of Selected 30 Cities - Population, Households, City Area, ULB, SPV, etc.
- ❖ Current State of Infrastructure
- ❖ Investment Requirements
- ❖ Key Sources of Funding
- ❖ Key Projects Announced/Proposed
- ❖ Upcoming Tenders
- ❖ Outlook and Opportunities (till 2025-26)

7. International Collaborations under the Smart Cities Mission

- ❖ International Collaborations (International Enterprise, Singapore, US Trade and Development Agency, French Agency for Development, German House for Research and Innovation, SCANIA, Xylem, etc.)
- ❖ Key Focus/Intervention Areas
- ❖ Nature of Assistance
- ❖ Experience So Far - Bilateral Agreements Signed under Smart Cities Mission
- ❖ The Way Forward

8. Risks, Challenges and Impact Assessment

- ❖ Initial Project Risks and Mitigation Strategies
- ❖ Implementation Risks and Mitigation Strategies
- ❖ O&M Risks and Mitigation Strategies
- ❖ Financial Risks
- ❖ Impact of Smart City Development
- ❖ Key Success Factors

SECTION II: INVESTMENTS, OUTLOOK AND OPPORTUNITIES

9. Financing Needs and Challenges

- ❖ Experience So Far
- ❖ Key Sources of Funding (Central, State, Local, PPP, Bilateral/Multilateral Borrowing)
- ❖ New and Innovative Financing Options (User Charges, Municipal Bond, National Investment and Infrastructure Fund, Land-based Financing, Tax Revenue)
- ❖ Funding Pattern
- ❖ Funds Released So Far
- ❖ Recent Government Measures
- ❖ Risks and Challenges
- ❖ The Way Forward

10. PPP Potential and Outlook

- ❖ Key Thrust Areas for PPP
- ❖ Experience So Far
- ❖ Update on PPP Projects (Under Implementation, Bidding/Announced)
- ❖ Issues and Challenges
- ❖ Future Outlook

11. Analysis of Project Pipeline (By 2025-26)

- ❖ Overview of Projects in Pipeline
- ❖ Analysis by Segment
- ❖ Analysis by State
- ❖ Analysis by Stage of Development
- ❖ Analysis by Completion Period
- ❖ Expected Capacity Addition (Segment-wise)

12. Outlook and Market Opportunities (By 2025-26)

- ❖ Growth Drivers
- ❖ Upcoming Project Pipeline
- ❖ Investment Projections
- ❖ Market Opportunities (For Project Developers, EPC Contractors, Technology Providers, Equipment Providers, Financiers, Consultants)

SECTION III: SEGMENT ANALYSIS AND OPPORTUNITIES (TILL 2025-26)

13. Smart Mobility

- ❖ Key Technology Solutions (Intelligent Transport Systems, Smart Parking, Passenger Information Systems, Electric Buses, Smart Cards, Mobile Applications, etc.)
- ❖ Key Performance Indicators
- ❖ Area-based Developments

- ❖ Pan-City Developments
 - ❖ Convergence with Central Government Schemes
 - ❖ Noteworthy Initiatives/Projects
 - ❖ Key Learnings
 - ❖ Key Projects Under Implementation and Announced
 - ❖ Upcoming Tenders
 - ❖ Outlook and Opportunities (till 2025-26)
- 14. Smart Water and Waste Management**
- ❖ Key Technology Solutions (GIS, SCADA, Smart Metering, Waste-to-energy, Smart Bins, Geo-tagging, GPS-based Vehicle Tracking, etc.)
 - ❖ Key Performance Indicators
 - ❖ Area-based Developments
 - ❖ Pan-City Developments
 - ❖ Convergence with Central Government Schemes
 - ❖ Noteworthy Initiatives/Projects
 - ❖ Key Learnings
 - ❖ Key Projects Under Implementation and Announced
 - ❖ Upcoming Tenders
 - ❖ Outlook and Opportunities (till 2025-26)
- 15. Smart Energy**
- ❖ Key Technology Solutions (Smart Metering, Smart Grid, Installation of Rooftop Solar Units, Underground Cabling, etc.)
 - ❖ Key Performance Indicators
 - ❖ Area-based Developments
 - ❖ Pan-City Developments
 - ❖ Convergence with Central Government Schemes
 - ❖ Noteworthy Initiatives/Projects
 - ❖ Key Learnings
 - ❖ Key Projects Under Implementation and Announced
 - ❖ Upcoming Tenders
 - ❖ Outlook and Opportunities (till 2025-26)
- 16. Smart Safety and Security**
- ❖ Key Technology Solutions (CCTV Surveillance, Integrated City Control Room, Emergency Response System, Intelligent Street Lighting, etc.)
 - ❖ Key Performance Indicators
 - ❖ Area-based Developments
 - ❖ Pan-City Developments
 - ❖ Noteworthy Initiatives/Projects
 - ❖ Key Learnings
 - ❖ Key Projects Under Implementation and Announced
 - ❖ Upcoming Tenders
 - ❖ Outlook and Opportunities (till 2025-26)
- 17. Smart Governance and Communication**
- ❖ Key Technology Solutions (Online Bill Payments, Mobile Applications, Grievance Redressal Systems, etc.)
 - ❖ Key Performance Indicators
 - ❖ Area-based Developments
 - ❖ Pan-City Developments
 - ❖ Convergence with Central Government Schemes
 - ❖ Noteworthy Initiatives/Projects
 - ❖ Key Learnings
 - ❖ Key Projects Under Implementation and Announced
 - ❖ Upcoming Tenders
 - ❖ Outlook and Opportunities (till 2025-26)
- 18. Affordable Housing**
- ❖ Key Performance Indicators
 - ❖ Convergence with Central Government Schemes
 - ❖ Noteworthy Projects
 - ❖ Key Learnings
 - ❖ Key Projects Under Implementation and Announced
 - ❖ Upcoming Tenders
 - ❖ Outlook and Opportunities (till 2025-26)
- 19. Other Focus Areas**
- ❖ Education
 - ❖ Healthcare
 - ❖ Capacity Building
 - ❖ Roads and Flyovers
 - ❖ City Gas Distribution
 - ❖ Public Amenities (Convention Centre, Auditorium, Market Areas, etc.)
- SECTION IV: GLOBAL AND INDIAN CASE STUDIES**
- 20. Case Studies of Select Smart Cities in India**
- ❖ GIFT
 - ❖ Lavasa
 - ❖ Naya Raipur
 - ❖ DMIC Smart Cities
 - ❖ Select Cities under the Smart Cities Mission
 - ❖ Others
- Each case study will provide information on:**
- Key Focus Areas (Mobility, Water and Waste, Energy, Governance, Safety and Security, Buildings, Communication, etc.)
 - New Innovations and Technologies
 - Business and Financial Models
 - Best Practices and Key Learnings
 - Issues and Challenges
- 21. Case Studies of Existing Global Smart Cities**
- ❖ Amsterdam
 - ❖ Barcelona
 - ❖ Copenhagen
 - ❖ Singapore
 - ❖ Stockholm
 - ❖ Manchester
- Each case study will provide information on:**
- Key Focus Areas (Mobility, Water and Waste, Energy, Governance, Safety and Security, Buildings, Communication, etc.)
 - New Innovations and Technologies
 - Business and Financial Models
 - Best Practices and Key Learnings
 - Issues and Challenges
- SECTION V: DATABASE OF KEY PROJECTS**
- A comprehensive excel-based database of projects across water supply, sewerage, waste, energy, mobility, roads, flyovers, safety and security, e-governance, healthcare, capacity building and city gas distribution segments.
- Each project will provide information on:**
- ❖ Scope
 - ❖ Project Cost
 - ❖ Current Status
 - ❖ Type of Project (Area-based or Pan-City)
 - ❖ Contractor/Developer
 - ❖ Completion Date (wherever available)

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