

# SMART CITIES IN INDIA 2020

Trends, New Initiatives, Outlook and Opportunities

- ❖ Report (PDF)
- ❖ Data-set (Excel)

## The Smart Cities report 2020 will help you:

- ❖ Analyse the market trends, key developments and future potential of smart cities
- ❖ Gain insights into the implementation experience and the challenges faced
- ❖ Assess the impact of recent initiatives to fast track project completion
- ❖ Track the upcoming projects & tenders
- ❖ Identify the upcoming opportunities in the 100 smart cities
- ❖ Understand the noteworthy initiatives and technology solutions being deployed across segments
- ❖ Support business planning and strategies

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Smart Cities Mission (SCM) is one of the most ambitious programmes of the government for urban renewal and transformation. Since its launch in 2015, over 5,100 projects worth about Rs 2 trillion have been identified by the 100 cities of which 25% projects have been completed. While the initial progress was slow, in the past year, significant steps have been taken to speed up the implementation of the mission. New initiatives such as 20-20 model has been introduced, report card of 100 smart cities is being prepared, international expertise and technical assistance is being sought, etc. Further, the government has announced the development of five new PPP smart cities to enhance private sector participation. A new and improved Smart Cities 2.0 is also on the cards. In the next two to three years, the Smart Cities segment in India offers ample opportunity for project developers, financiers, consultants, and technology and equipment providers.

## Key Insights and Takeaways

### SECTION I: SECTOR ANALYSIS, RECENT DEVELOPMENTS AND UPCOMING PROJECTS

#### 1. Trends, Developments and Mission Update

- ❖ Sector Overview
- ❖ Notable Trends
- ❖ Recent Developments
- ❖ Budget 2020-21: Key Announcements & Likely Impact
- ❖ Smart Cities Mission
  - Scope and Features
  - Investment Requirements
  - Project Awards and Completions
- ❖ Technology Trends & Advancements
- ❖ New Entrants & Startups
- ❖ Issues and Challenges
- ❖ Smart Cities Mission 2.0
- ❖ Future Outlook

#### 2. Project Analysis: Completed & Operational Projects

- ❖ Analysis by:
  - City
  - Segment
  - Category (Area-based and Pan-City)
  - Mode of Implementation (PPP or EPC)
- ❖ Inter-City Comparison (progress rates, investment mobilised, reforms implemented, new technologies adopted, etc.)
- ❖ Select Case Studies (of top completed projects)
- ❖ Key Challenges and Mitigation Measures Adopted

#### 3. Project Pipeline

- ❖ By Stage of Development
  - Under Implementation
  - Under Bidding
  - Announced
  - Planned Projects
- ❖ By Segment
  - Mobility
  - Energy
  - Governance & Communication
  - Water & Waste
  - Safety & Security
  - Etc.
- ❖ By Mode of Implementation (PPP or EPC)
- ❖ By Region and State
- ❖ By City
- ❖ By Period of Completion
- ❖ Top Upcoming Contracts/Tenders

#### 4. Recent Initiatives to Fasttrack Implementation

- ❖ 20-20 Model
  - Key Features
  - Implementation Strategy
  - Targets & Timelines
- ❖ Data-driven Governance
  - Report Card of 100 Smart Cities

- Key Performance Parameters
- Key Findings & Results

- ❖ International Partnerships & Lessons Learnt
- ❖ Reforms: Implementation Plan & Key Achievements
- ❖ Citizen Participation: New Initiatives & Recommendations

#### 5. New PPP Smart Cities

- ❖ Current State of Infrastructure in the Five Cities
- ❖ Implementation Model
- ❖ Infrastructure Development Plan
- ❖ Technology Needs & Requirements
- ❖ Investment Requirements
- ❖ Source of Funding
- ❖ Upcoming Projects & Opportunities
- ❖ Targets & Timelines

#### 6. Future Outlook and Market Opportunities

- ❖ Growth Drivers
- ❖ Investment Projections (till 2025-26)
- ❖ Opportunities for Stakeholders
  - EPC Contractors
  - Private Developers
  - Financiers/Long-Term Investors
  - Technology and Equipment Providers
  - Project Management Consultants
  - DPR Consultants
  - Other Stakeholders
- ❖ Future Outlook

#### 7. Top 15 Investment Destinations

- ❖ SWOT Analysis
- ❖ Project Portfolio (Completed, Ongoing, Planned and Announced Projects)
- ❖ Upcoming Contracts/Tenders
- ❖ Investment Requirements
- ❖ Market Opportunities

#### 8. New & Innovative Funding Strategies

- ❖ Key Sources of Funding
  - Budgetary Allocations
  - State & ULB Funding
  - Private Investments
  - Multilateral Funds
  - Convergence with Other Government Programmes
- ❖ Municipal Bond Market: Key Issuances and Future Plans
- ❖ Credit Ratings of ULBs
- ❖ Fund Allocation & Disbursements (By State and City)
- ❖ Investment Outlook & Future Funding Strategies
- ❖ Risks and Challenges

#### 9. Potential for Private Sector Participation

- ❖ Experience So Far
- ❖ Business & Revenue Models
- ❖ Key Completed Projects
- ❖ Key Ongoing Projects
- ❖ Select Case Studies & Key Learnings
- ❖ Upcoming Projects & Opportunities
- ❖ Future Prospects & Potential

**SECTION II: IMPLEMENTATION EXPERIENCE, UPCOMING PROJECTS AND OPPORTUNITIES****10. Top 20 Smart Cities**

- ❖ Infrastructure Development & Investment Plans
- ❖ Key Focus Areas (Mobility, Energy, Governance, Water & Waste, etc.)
- ❖ Progress So Far & Key Achievements
- ❖ Fund Allocation & Disbursements
- ❖ Key Completed Projects
- ❖ Key Ongoing & Upcoming Projects
- ❖ Technology & Smart Initiatives
- ❖ Upcoming Contracts & Tenders
- ❖ Issues & Mitigation Measures

**11. Fast Track (13 cities) and Round II Cities (27 cities)**

- ❖ Infrastructure Development & Investment Plans
- ❖ Key Focus Areas (Mobility, Energy, Governance, Water & Waste, etc.)
- ❖ Progress So Far & Key Achievements
- ❖ Fund Allocation & Disbursements
- ❖ Key Completed Projects
- ❖ Key Ongoing & Upcoming Projects
- ❖ Technology & Smart Initiatives
- ❖ Upcoming Contracts & Tenders
- ❖ Issues & Mitigation Measures

**12. Round III (30 cities) and Round IV Cities (10 cities)**

- ❖ Infrastructure Development & Investment Plans
- ❖ Key Focus Areas (Mobility, Energy, Governance, Water & Waste, etc.)
- ❖ Progress So Far & Key Achievements
- ❖ Fund Allocation & Disbursements
- ❖ Key Completed Projects
- ❖ Key Ongoing & Upcoming Projects
- ❖ Technology & Smart Initiatives
- ❖ Upcoming Contracts & Tenders
- ❖ Issues & Mitigation Measures

**13. Greenfield Smart Cities**

- ❖ GIFT City
- ❖ Aurangabad Industrial City
- ❖ Palava
- ❖ Lavasa
- ❖ Dholera
- ❖ Vikram Udyogpuri
- ❖ Integrated Industrial Township Greater Noida Limited

*Each case study provides information on key focus areas (mobility, water and waste, energy, governance, safety and security, buildings, communication, etc.); investment requirements; new innovations and technologies; best practices; upcoming projects & opportunities; issues and challenges; and key learnings*

**14. Non-Mission Smart Cities**

- ❖ Greater Mumbai (MCGM Area)
- ❖ Smart Bandra Kurla Complex (BKC) Project
- ❖ Virar-Alibaug Multi Modal Corridor

- ❖ Amravati
- ❖ Delhi (Non-NDMC Area)
- ❖ Others

*Each case study provides information on key focus areas (mobility, water and waste, energy, governance, safety and security, buildings, communication, etc.); investment requirements; new innovations and technologies; best practices; upcoming projects & opportunities; issues and challenges; and key learnings*

**SECTION III: SEGMENTS IN FOCUS: NOTEWORTHY INITIATIVES, NEW TECHNOLOGIES AND ADVANCEMENTS****15. Smart Mobility/Transportation****16. Smart Energy and Smart Grids****17. Smart Water and Waste****18. Affordable Housing & Intelligent Buildings****19. Smart Governance & Communication****20. Safety & Security**

*Each of the above chapters will include:*

- ❖ Key Thrust Areas
- ❖ Technology Solutions
- ❖ Current State of Infrastructure in Smart Cities
- ❖ Noteworthy Initiatives/Projects
- ❖ Select Case Studies & Technologies Deployed
- ❖ Key Learnings
- ❖ Issues & Challenges
- ❖ Upcoming Contracts & Tenders
- ❖ Segment Outlook (till 2025-26)

**21. New Focus Areas**

- ❖ Healthcare
- ❖ Public Amenities
- ❖ City Gas Distribution
- ❖ Roads & Flyovers
- ❖ Others

**SECTION IV: DATABASE OF KEY PROJECTS**

*The report will also provide a comprehensive Excel-based database of ongoing and upcoming projects across the water supply, sewerage, waste, energy, mobility, buildings, roads, safety and security, e-governance, parking, and healthcare segments.*

*Each project will provide information on:*

- ❖ Scope
- ❖ Project Cost
- ❖ Type of Project (Area-based or Pan-City)
- ❖ Mode of Implementation
- ❖ Implementing Agency
- ❖ Contractor/Developer
- ❖ Current Status
- ❖ Expected Date of Completion
- ❖ Etc.

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