SMART CITIES PROJECTS & PROPOSALS

JABALPUR
CITY OF EVENTS & FESTIVALS

Organised by
SmartCitiesCouncil India
LIVABILITY | WORKABILITY | SUSTAINABILITY
www.india.smartcitiescouncil.com

Strengthened by
UltraTech Cement
Build beautiful
The Engineer’s Choice
About Smart Cities Council India

To tap into the transformative power of smart technologies, cities need a trusted, neutral advisor. Smart Cities Council provides that help. We are a network of leading companies advised by top universities, laboratories and standards bodies. We promote cities that embody our three core values:

**Livability**: Cities that provide clean, healthy living conditions without pollution and congestion. With a digital infrastructure that makes city services instantly and conveniently available anytime, anywhere.

**Workability**: Cities that provide the enabling infrastructure—energy, connectivity, computing, essential services—to compete globally for high-quality jobs.

**Sustainability**: Cities that provide services without stealing from future generations.

As India gears up to build 100 smart cities and takes giant strides in the infrastructure development of the country, Smart Cities Council India aims to participate in this development process by providing all stakeholders relevant information about Smart Cities’ development in India. The aim of the India Chapter is to provide latest updates on what is happening on the smart cities development front, gather and disseminate resources, collate industry data and showcase achievements in this segment.

**Contacts**

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**Note**: Information as on date of publishing of this report July 10, 2017.
Contents

2  Introduction

3  Water Supply Management
Sewage

4  Transportation
Social Infrastructure

5  Integrated Solid Waste
Management

6  Intelligent Pole

7  Integrated Command and
Control Centre

8  Development of Dumna
Nature Reserve

9  City Identity and Culture
Sports

10 Opportunities
Introduction

State: Madhya Pradesh

Urban Status: Municipal Corporation

Area: 152.53 sq km

Population: 1,055,525

Literacy Rate (%): 87.39

Demographics

Share of ULB population in Urban (%): 73.30

Population per sq km: 6,920

Youth, 15-24 (%): 20.20

Working Age Group, 15-59 (%): 66.73

Share of ULB area in dist (%): 2.93

Slum Population (%): 45.82

Economics

Urban Poverty Ratio (%): 16.93

Per Capita Income 2004: Rs 38,968

Work Participation Rate (%): 32.72

Self Employed (%): 39.72

Salaried Employees (%): 48.87

No Sanctioned SEZs: 3

Infrastructure

Households with access to tap water (%): 69.81

Households with access to electricity (%): 95.84

Households with toilet facility (%): 81.15

Households with waste water outlet (%): 91.11

Slums

No of Slums: 12

Slum Household: 2,392

Slum Population: 9,200
Water Supply

Treated Water Quantity

217 MLD*

Existing Water Demand

193.86 MLD

Proposals

- 100% coverage of Safe Drinking water
- Reduction of NRW to 10% and smart metering
- 24X7 Water Supply with SCADA
- Recycling and reuse of waste water
- Smart Water metering under AMRUT
- Energy efficient lighting and water supply
- DPR prepared

Sewage

Generation

121.52 MLD

Existing Treatment Capacity

50 MLD**

Proposals

- Sewer Connection to all
- Efficient Drainage system
- Well-organized Solid and Liquid Waste Management
- Door to Door Collection of solid waste
- Waste to energy
- RFID tagging of household dustbins
- Smart bins
- Capping of Ranital & Kathaonda Landfill Site
Transportation

Length of Roads in the City

811 Km

Length of Major Roads

326 Km

Proposals

- Bus based affordable and comfortable public transport systems
- Pedestrianization & Cycling access for last mile connectivity
- Discouraging Individual Vehicles
- Integrated and Intelligent Parking Spaces
- J CARD for cashless transactions
- Smart Road of 14.7 Kms
- Non motorized transport
- Junction Improvement at various locations

Projects Identified:

- Stretch of 7 Km for NMT identified
- Scope of Work: Upgradation, Augmentation, Foot path & Cycle track works, Utility Duct, Infrastructure Design, Road Markings, Street Furniture, Traffic signage, Bus Shelter, Vending Kiosk, etc
- Project Cost – Rs 7.60 crore
- Tender stage

Smart Roads

- Utility Duct, Infrastructure Design, Junction Improvement, Road Markings, Street Furniture, Traffic signage
- Bus Shelter, Street Landscaping and other Miscellaneous works
- Smart Toilets, Water ATMs, Smart Solid-Waste Bins, Smart Signage, Smart Public Transport Station, Wi-fi “hot-spots”, Smart security surveillance
- Tender stage

Social Infrastructure

Hospitals

100+

Schools

1000+

Colleges

90+

Social Infrastructure

- e-Governance and m-Governance (apps)
- Command & Control Centre
- Wi-Fi enabled Smart Poles
- ITMS (Intelligent Traffic Management System)
- RFID Tagging and Smart bins
- Smart Health and Smart Classrooms
- SCADA based smart metering for water supply

Projects Identified:

Development of Ranital Recreational Zone

- Restoration of lake and Capping of landfill site
- Slum rehabilitation
- Development of Green & Recreational Areas
Integrated Solid Waste Management

- Project worth Rs 6.5 crore
- Approximately 2.76 lacs houses to be RFID tagged - Work in progress
- Single municipal ward in ABD area to be selected for pilot implementation
- Duration of project 5 years and implementation of project 9 months
Intelligent Pole

- RFP floated
- Bid submission on July 21, 2017
- Opening of Financial Bids by July 31, 2017
- PAN City Project
- Project on PPP model
- Project worth Rs 200 crore
- Total duration of project 15 years with 1 year of implementation
- Replacement of Conventional Lights and Fixtures with energy efficient Lights and equipment
- Use of Solar Power
- Solar roof top at Government Buildings
- Solar Power plant on Municipal Lands
Objectives
Better collaboration
Faster response
Standardised process for emergencies
Pre-emptive governance

Control centres operating in silos
The major bottleneck that arises in case of standalone setup of command centres is lack of co-ordination and unified decision in case of emergency.

Integrated operations platform
Integration of all control centres will facilitate a super dataset for analysis and generate actionable intelligence for stakeholders involved.

To provide, deploy and configure a centralized command and control Centre with an integrated operations and dashboard application that will integrate various Smart City components implemented in this project and in future.

- RFP floated
- Project worth Rs 150 crore
- Duration of project 5 years with one year implementation
- Services to be integrated in phase 1:
  - Dial 100
  - Dial 108
  - Intelligent Traffic and Transit Management System
  - Fire and Disaster Management
  - 24x7 Water Supply
  - Intelligent Lighting
  - Integrated Solid Waste Management
Development of Dumna Nature Reserve

- Client - Jabalpur Smart City Limited
- Project Cost - Rs 60 crore
- Scope of work
  - Heritage Conservation, Tourist Information Centre
  - Development of Ethnic Village
  - Development of Recreational Zone - DPR Preparation stage
  - Preparation of Master Plan
  - Implementation mechanisms & Financial planning
  - Marketing Strategy
- Total Site Area - 800 acre
### OUTCOMES

**Conservation of tangible and intangible culture**

**STRATEGIES**

Performance Spaces at 8 locations
Organising festivals related to literature, art & culture

**Strengthening and showcasing city festivals**

Providing space for tribal culture
Skill development in the field of art, craft and other field of culture

**Development of City as “City of events and festivals”**

Institutional development such as cultural centre/film city etc.

**Performance Spaces at Various locations**

Cultural Street & Amphitheatre at Bhawartal
- OAT at Bhitouli
- Amphitheatre at Dumna
- Convention Centre at Ghanta Ghar & Gol Bazar
- Performance Area Along Omti Corridor

**Organising festivals related to literature, art & culture**

Ethnic Village at Dumna for skill based communities
- Heritage and Cultural Museum
- Depiction of Tribal Art along Culture street at Bhawartal
- Use of Tribal Motifs and Art in selected Urban design and patterns

**Providing space for tribal culture**

- Skill development in the field of art, craft and other field of culture
- Institutional development such as cultural centre/film city etc.

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### Sports

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Project Cost (in Rs Cr.)</th>
<th>Status</th>
<th>Project Timeline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wright Town Stadium/ Multisports Complex (12500 Capacity)</td>
<td>150.0</td>
<td>DPR Prepared</td>
<td>Start Date</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>March 2017</td>
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</table>
## OPPORTUNITIES

<table>
<thead>
<tr>
<th>Sr No</th>
<th>Name of Project</th>
<th>Category</th>
<th>Sector</th>
<th>Type of Project</th>
<th>Project Cost (in Rs Cr.)</th>
<th>Source of Funding</th>
<th>Progress till date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jabalpur Smart road Phase - 1 (Major Roads Class-A &amp; Class-B) 14.7 Km including 1) Utility Duct(u/g electric cable &amp; OFC) Smart Road 2) Water Supply 3) With NMT</td>
<td>ABD</td>
<td>Transport</td>
<td>NON PPP</td>
<td>160.00</td>
<td>GoI/State Grant/ULB</td>
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<tr>
<td>2</td>
<td>Jabalpur Smart road Phase - 2 of Class-C roads</td>
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<tr>
<td>3</td>
<td>NMT (Non Motorized Transport) Phase - 1 Madan Mahal to Ghanta Ghar (Omti nala) 2.4 Km Phase - 2 Remaiaing Omti nala 4.6 KM</td>
<td>ABD</td>
<td>Transport</td>
<td>Non PPP</td>
<td>7.60</td>
<td>GoI/State Grant/ULB</td>
<td>Tender stage</td>
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<td>4</td>
<td>Transport Nagar (80 acre)</td>
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<td>Transport</td>
<td>PPP</td>
<td>25.00</td>
<td>Other / Real estate</td>
<td>DPR \ Prepared</td>
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<td>5</td>
<td>Modern City Bus services</td>
<td>Pan City</td>
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<td>Damoh Naka bus depot</td>
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<td>PPP</td>
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<td>Green BRTS and Bus terminus at Gwarighat</td>
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<td>24/7 Water Supply with SCADA</td>
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<td>Smart Poles along with OFC and LED Fixtures, Public Wi-Fi Hot Spots</td>
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<td>Waste to Energy</td>
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<td>14</td>
<td>Open Defecation free city</td>
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<td>Sanitation</td>
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<td>RFID Tag for households dustbin</td>
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<td>Sr No</td>
<td>Name of Project</td>
<td>Category</td>
<td>Sector</td>
<td>Type of Project</td>
<td>Project Cost (in Rs Cr.)</td>
<td>Source of Funding</td>
<td>Progress till date</td>
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<td>16</td>
<td>Capping of Ranital &amp; Kathonda Landfill site (Grant from solid waste)</td>
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<td>Solid Waste</td>
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<td>27.73</td>
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<td>DPR Preparation stage</td>
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<td>17</td>
<td>M-Governance System for Resource Tracking and Project Management ( jabalpur311)</td>
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<td>Technology</td>
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<td>1.50</td>
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<td>18</td>
<td>Multipurpose Smart card for cashless Transaction for city transport and various other purposes</td>
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<td>Implemented</td>
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<td>19</td>
<td>Convention center at Ghanta Ghar (2.5 Acre) along with NMT (PSP land use)</td>
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<td>Economy</td>
<td>PPP</td>
<td>85</td>
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<td>20</td>
<td>Teen Patti Commercial Complex Including Metro Bus stand</td>
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<td>270.00</td>
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<td>21</td>
<td>Madan mahal Eco tourism zone</td>
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<td>22</td>
<td>Hospitality Projects for tourists ( Dumna and Gwarighat)</td>
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<td>Economy</td>
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<td>300.00</td>
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<td>23</td>
<td>Institutions related to Garment and Fashion Technology</td>
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<td>Economy</td>
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<td>22.50</td>
<td>Convergence with NULM/ Skill India</td>
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<td>24</td>
<td>Garment Park (Manufacturing hub)</td>
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<td>210.00</td>
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<td>25</td>
<td>Institutions related to Hotel management and Tourism Development</td>
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<td>26</td>
<td>Tourist Info Centre at 10 locations with allied Activities</td>
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<td>Economy</td>
<td>PPP</td>
<td>20.00</td>
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<td>27</td>
<td>Wright Town Multi sports Complex (12400 Capacity)</td>
<td>ABD</td>
<td>Area Development (AD)</td>
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<td>“Multi-Level Parking cum commercial complex at George Town”</td>
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<td>PPP</td>
<td>12.00</td>
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<td>Multi-Level Parking at NAV BHARAT, MANAS BHAVAN, Civic center</td>
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<td>Area Development (AD)</td>
<td>PPP</td>
<td>24.00</td>
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<td>30</td>
<td>Ranital Lake development</td>
<td>ABD</td>
<td>Area Development (AD)</td>
<td>PPP</td>
<td>12.22</td>
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<td>Sr No</td>
<td>Name of Project</td>
<td>Category</td>
<td>Sector</td>
<td>Type of Project</td>
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<td>Source of Funding</td>
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<tr>
<td>31</td>
<td>Development of Dumna Nature Park (Nature Study Centre, Cycle Track, Tribal Market, Tourist Market, Yoga and Spiritual villages, Ethnic Village and Cultural center and other facilities)</td>
<td>Pan City</td>
<td>Area Development (AD)</td>
<td>PPP &amp; Non PPP Both</td>
<td>60.00</td>
<td>GoI/State Grant/ULB</td>
<td>DPR Preparation stage</td>
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<tr>
<td>32</td>
<td>River front event &amp; institutional zone (Green field development - OAT at bhatoli, Recreation, Various institutions and Exhibition and Expo Centre)</td>
<td>Pan City</td>
<td>Area Development (AD)</td>
<td>PPP &amp; Non PPP Both</td>
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<td>33</td>
<td>City Livelihood, Vocational &amp; Skill Development Centers (SDC) at 6 locations</td>
<td>Pan City</td>
<td>Inclusive city</td>
<td>Non PPP</td>
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<td>GoI/State Grant/ULB/ NULM-1 Cr.</td>
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<td>34</td>
<td>Health &amp; Sanitation Museum</td>
<td>Pan City</td>
<td>Inclusive city</td>
<td>PPP</td>
<td>8.00</td>
<td>Pvt Sector</td>
<td>Project Identified</td>
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<td>35</td>
<td>City Social Welfare Centre at 6 locations</td>
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<td>Non PPP</td>
<td>42.00</td>
<td>GoI/State Grant/ULB</td>
<td>Project Identified</td>
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<td>36</td>
<td>Affordable Houses (600)</td>
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<td>Inclusive city</td>
<td>NON PPP</td>
<td>60.00</td>
<td>Convergence with PMAY</td>
<td>Project Identified</td>
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<td>37</td>
<td>Super specialty Hospital (300 Beds)</td>
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<td>Inclusive city</td>
<td>PPP</td>
<td>160.00</td>
<td>Pvt Sector</td>
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<td>38</td>
<td>Mini sports Centre at 10 locations</td>
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<td>Inclusive city</td>
<td>PPP</td>
<td>20.00</td>
<td>Pvt Sector</td>
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<td>39</td>
<td>Development of Incubation Centers</td>
<td>ABD</td>
<td>Inclusive city</td>
<td>Non PPP</td>
<td>27</td>
<td>GoI/State Grant</td>
<td>Design preparation stage</td>
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<td>Heritage and cultural museum of Jabalpur city (Near Bhawartal )</td>
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<td>Tourism</td>
<td>Non PPP</td>
<td>28.00</td>
<td>Debt</td>
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<td>41</td>
<td>Development of Tripuri Memorial</td>
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<td>Tourism</td>
<td>Non PPP</td>
<td>8.00</td>
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<td>42</td>
<td>Narmada Darshan path</td>
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<td>Tourism</td>
<td>NON PPP</td>
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<td>43</td>
<td>‘Beautification, restoration and improvement of Heritage Properties 1) Anjuman Islamia School 2) Ghanta Ghar 3) kamania Gate 4) Sangram sagar 5) JMC office 6) Town Hall 7) Gokuldas Dharamsala’</td>
<td>Pan City</td>
<td>Tourism</td>
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<td>Sr No</td>
<td>Name of Project</td>
<td>Category</td>
<td>Sector</td>
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<td>44</td>
<td>IT Park Bargi Hills</td>
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<td>45</td>
<td>Installation of SCADA System integrated with GIS</td>
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<td>3.12</td>
<td>GoI/State Grant</td>
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<td>46</td>
<td>Smart classroom with Wi-Fi facility for 22 schools in Area</td>
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<td>Technology</td>
<td>Non PPP</td>
<td>11.37</td>
<td>GoI/State Grant</td>
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<td>47</td>
<td>Intelligent Traffic Management System</td>
<td>ABD</td>
<td>Technology</td>
<td>Non PPP</td>
<td>2.00</td>
<td>GoI/State Grant</td>
<td>Tender stage</td>
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<td>48</td>
<td>Command and Control center With Hardware and Software</td>
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<td>49</td>
<td>Disaster Management and Mitigation Center</td>
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<td>Project Identified</td>
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<td>50</td>
<td>Smart bins (Geo-tagging of bins)</td>
<td>Pan City</td>
<td>Technology</td>
<td>Non PPP</td>
<td>5.00</td>
<td>GoI/State Grant</td>
<td>Work in progress</td>
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<td>51</td>
<td>Public Bicycle Sharing</td>
<td>Pan City</td>
<td>Transport</td>
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<td>6.00</td>
<td>GoI/State Grant</td>
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<td>52</td>
<td>NMT from gorakhpur to gwarighat (approx 6KM)</td>
<td>Pan City</td>
<td>Transport</td>
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<td>6.00</td>
<td>Convergence with AMRUT</td>
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<td>53</td>
<td>City of events and festivals (tourism and Garment)</td>
<td>Pan City</td>
<td>Tourism</td>
<td>Non PPP</td>
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<td>DPR Preparation stage</td>
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<td>54</td>
<td>Bhawartal swimming pool and mulilevel parking</td>
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<td>Area Development (AD)</td>
<td>PPP</td>
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<td>Implementation of mobile Application &amp; Web portal for Tourism</td>
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<td>56</td>
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<td>Laying of Sewer line at NMT Omti nala</td>
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<td>Sanitation</td>
<td>NON PPP</td>
<td>3.38</td>
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**Total** 4,025.02
This handbook is a part of a series that looks at Smart City proposals of 16 cities in the context of their respective needs, challenges and objectives. Each of these 16 cities will be the focus of upcoming Smart Cities Council India’s Multi-city Smart City Workshops over the next few months.

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