Bhopal Smart City has been envisioned as to be 24/7 activity based, thriving and energetic place where people will live work and play. This integrated live-work- and play concept is an approach to sustainable, which giving residents and workers great convenience to commute with a reduce time, within their living environment in terms of convenient access to amenities and facilities around include through land use coordination of carefully balanced areas of residences, office, education, medical and entertainment area.
CITY PROFILE:

- Bhopal District Area: 2772 km²
- Bhopal Municipal Corporation Area: 413 km²
- City Population: 2,371,061
- Population Density: 855
- Population Growth Rate: 28.62%
- Proportion of Population to Madhya Pradesh: 3.26%
- City Sex Ratio: 918
- Child Sex Ratio: 920
- Females: 1,134,931
- Males: 1,236,130
- Average Literacy Rate: 80.37%
- Female Literacy Rate: 74.87%
- Male Literacy Rate: 85.42%
### CITY Diagnosis:

#### Energy
- **Total Energy Supply**: 1951.46 million units (2014-15)
- **No. of Substations**:
  - 132/33 KV Substation – 5
  - 33/11 KV Substation – 67
  - 11/0.433 KV Transformers – 8431
- **Billing & Collection Efficiency**:
  - Average Billing Efficiency: 74%
  - Collection Efficiency: 99%
- **Extent of metering**: Till consumer level

#### Water
- **Total Water Supply**: 125 LPCD
- **Total Water Demand**: 135 LPCD
- **Pipeline Network**:
  - 1781 KM Pipeline Covered
  - 494 KM Under Construction
  - 225 KM without Pipeline
- **NRW**:
  - 50.31%
- **Extent of Metering**:
  - 19.75%
- **Collection Efficiency**:
  - 70%
- **Storage Reservoirs**:
  - **Total** – 139 reservoirs
  - **Total Storage Capacity** – 171.949 MLD

#### Sewerage & Sanitation
- **Total Present Sewerage Network**:
  - 466 KM
- **Required Sewerage Network**:
  - 2000 KM
- **Present Treatment Capacity**:
  - 74.53MLD
- **Sewerage Treatment Capacity Required**:
  - 2 MLD
- **% Area Coverage by Sewer Lines**:
  - 24%
- **Total Sewage Pumping Station**:
  - 21
- **Total Sewage Treatment Plant**:
  - 7
- **Sewerage Collection Efficiency**:
  - 31.85%
- **Sewerage treatment Capacity Efficiency**:
  - 80%

#### SWM
- **Total Solid Waste Generation**:
  - 802.35 TPD
- **Waste Collection Efficiency**:
  - 85% in the Middle income group
  - 57% in Gated Colonies
- **Household Level Coverage**:
  - 77% in the Middle income group
  - 62% in old city
  - 10% in slums
- **User Charges**:
  - Rs. 69.68/ton
- **No. of Vehicles/day running for SWM**:
  - 77
- **Capacity of Compost Plant**:
  - 120MT

#### Transport
- **Total Length of Roads**:
  - 2500 KM
- **Total Vehicles Running in Bhopal**:
  - 57,552
- **Average Speed on the network of Bhopal**:
  - 30 kmph
- **Average Trip Duration in Bhopal**:
  - 21 minutes

#### Storm Water Management
- **Total zones of Drain in Bhopal**:
  - 22 Zones
- **Length of Storm Water Drains**:
  - Total Required – 1620 KM
  - Constructed – 451 KM
  - Natural Drain – 30 KM
  - Road Side Drain – 421 KM
- **Total No. of Drains in Bhopal**:
  - 25
- **Coverage of Municipal Area by Storm Water Drainage**:
  - 24.57%
- **Extent of Sewerage Mixing in the drains**:
  - 80%
- **Extent of Water Logging**:
  - 30%
SITE CONTEXT:

The Proposed Site for Redevelopment is located in Shivaji Nagar Area, with approx. area of 350 acres. The Site is near to Habibganj Railway Station and next to existing BRT corridor.
ESSENTIAL FEATURES OF SMART CITY

- Rain Water Harvesting / Detention
- Energy Efficient Buildings
- Robust Internet Connectivity
- Affordable Housing
- 24x7 Electricity Solar Energy Rooftop
- Vehicle Free Development
- Vibrant Open Spaces
- Mixed Use
- Energy Efficient Street Lighting
- Intelligent Traffic System / Smart Parking
- Adequate Water Supply
- Encouragement to Walking & Cycling
- Public Toilets / Solid Waste Management
- Underground Integrated Services Tunnel
- Smart Sensors / CCTV
- 24x7 Electricity
- Solar Energy Rooftop
Pan city

Bundle of city governance, public services and infrastructure projects.

Smart Cities Mission Bhopal.....Accelerating Transformation !
SMART AND INTELLIGENT STREET LIGHT

SMART LIGHTING SYSTEM

Wireless Dual Band Mesh Transceiver

App Based Wireless Control

RGB Notification (indicator light)

Main St

Digital street sign *

EVENT ➔

PARKING ➔

Façade lighting * (Color Changing)

“Smart Grid” Street Light
- Photocell control
- 0-100% dimming
- On-demand light levels

Concealed Placement Speaker (CPS)™
- Music
- Announcements
- Alerts

Image Sensor *
- Proximity sensors
- Pedestrian counter

Digital Signage *
- Way finding
- Traffic direction
- Alert notification
- Civic information
- Revenue generation via advertising