

# EXECUTIVE SUMMARY

## SMART CITY LUDHIANA

### Smart City

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec suscipit vehicula velit id fermentum. Morbi fermentum nulla eu sem feugiat, quis ultricies dui feugiat. Cras velit odio, aliquam faucibus eleifend et, laculis eget quam.

[Learn more](#) [Contact](#)

**We Provide:**

Aliquam eget diam vulputate, rutrum arcu a, rutrum nulla. Sed gravida, libero sed congue volutpat, sem dolor malesuada nibh, a vestibulum risus purus quis ante. Fusce dictum metus quam, vel viverra ligula rutrum quis. Nam dignissim dolor a vestibulum aliquam. Cras velit odio, aliquam faucibus eleifend et.

- Big Data**  
Cras pulvinar euismod risus, id sagittis nisi aliquam eu. In efficitur tristique ipsum.
- Automation**  
Cras velit odio, aliquam faucibus eleifend et, laculis eget quam. Nam eget gravida lectus, vel
- Smart Home**  
Duis at nibh id neque sagittis faucibus ornare vel elit. Etiam velit enim, euismod.
- Internet Of Things**  
Proin congue dolor eu sollicitudin convallis. Class aptent taciti sociosqu ad litora torquent per.

## ANNEXURE 2

## **VISION STATEMENT:**

**“LUDHIANA CLEAN & GREEN CITY”**

### **PAN CITY PROJECTS (to be implemented throughout the City):**

- **Sanitation & Solid Waste Management**
- **Integrated traffic and transport management system**
- **Water Supply – Surface water based water supply 24x7 scheme**
- **Integrated ICT based digital platform for management of urban infrastructure and safe city project including Smart street lighting.**

### **AREA BASED DEVELOPMENT (to be implemented in selected area):**

- **Area Selected**

Ferozpur Road Area: Rose Garden, Ghumar Mandi, Bhaibala Chowk (retrofitting) - Population (38,000 - projected 2017) - Area (790 acres)

- **Components of proposed Area Based Development (Ferozpur Road Area)**
  - i. Streetscape Improvements and Beautification including footpaths, landscape, signage and bioswale on Ferozpur road
  - ii. Hoarding free city & Digital Hoarding
  - iii. Transportation Improvements
  - iv. Vehicle Free Zones (Ghumar Mandi)

#### **Area wide**

- i. Water Supply Management System (smart metering, SCADA systems, pressure monitoring meters, etc.)

- ii. Waste Water Management (sensors for sewage over flow, etc.)
- iii. Common Utility Tunnel
- iv. Storm Water Drainage
- v. Solid Waste Management (color coded garbage bins, mechanized road sweeping, etc.)
- vi. Underground Cables
- vii. Safety & Security
- viii. Robust IT Connectivity & Digitization
- ix. Innovative use of Parks & Open Spaces
- x. Smart Street Lighting (installation of Solar based LED Street Lighting)
- xi. Storm Water Reuse & Rain Water Harvesting System

### **Financial Plan**

The total estimated cost of the proposed projects including CAPEX & OPEX has been prepared to the tune of **Rs.5547.14 Cr.**

#### **A. CAPEX**

<b>S. No.</b>	<b>Components</b>	<b>Estimated Cost (Rs. in Cr.)</b>
<b>A.</b>	<b>Pan City Projects</b>	<b>3250.00</b>
1.	Sanitation & Solid Waste Management	550.00
2.	Integrated Traffic & Transport management system (ITMS)	200.00
3.	New Surface Water based Water Supply (24x7) Scheme	2100.00
4.	Integrated ICT based digital platform for management of urban infrastructure and safe city project including Smart street lighting.	400.00

S. No.	Components	Estimated Cost (Rs. in Cr.)
<b>B.</b>	<b>Area Based Development Projects</b>	<b>1051.50</b>
1.	Portable Water	43.16
2.	Waste Water	5.00
3.	Power	68.05
4.	Common Utility Tunnel	157.95
5.	Storm Water Management	51.65
6.	Waste Management	7.52
7.	Urban Design & Landscape	286.97
8.	Transportation	431.20
	<b>Grand Total (A+B)</b>	<b>4301.50</b>

- **OPEX**

i.	PAN City Projects	Rs.1005.00 Cr.
ii.	Area Based Projects	Rs.140.64 Cr.
	<b>Total O&amp;M (for 10 years)</b>	<b>Rs.1145.64 Cr.</b>

**Total Project Cost (CAPEX + OPEX): INR 5547.14 Cr**

**RESOURCE PLAN:** The financing options for the components identified under the SCP Ludhiana are planned considering the capital available from the GoI & GoP and will be made available for the period of 5 years. Different sources of funding which can be used to fund SCP Ludhiana are:

**Funding (Inflow):**

Sr.No.	Fund Source (@ 5 Years)	Rs. in Crore
<b>A.</b>	<b>GoI &amp; GoP Funding - SCM</b>	<b>988.00</b>
1.	Centre funding	488.00
2.	State Funding	500.00
<b>B.</b>	<b>Funding Through Central &amp; State Govt. Schemes</b>	<b>1408.55</b>

<b>Sr.No.</b>	<b>Fund Source (@ 5 Years)</b>	<b>Rs. in Crore</b>
1.	Atal Mission for Rejuvenation & Urban Transport (AMRUT) ( <i>Govt - 1/3<sup>rd</sup> Share + GoP - 2/3<sup>rd</sup> Share</i> )	1082.50
2.	Integrated Power Distribution System (IPDS) Scheme ( <i>Rs.34.83 Cr - 60% Govt Share</i> )	58.05
3.	E-Governance Program – Govt. of Punjab	15.50
4.	Solar City Mission of Govt. of India ( <i>Rs.75.76 Cr - 30% Govt Share</i> )	252.50
<b>C.</b>	<b>PPP Revenue</b>	<b>2789.50</b>
3.	Public Private Partnership (PPP)	2789.50
	<b>Total (A+B+C)</b>	<b>5186.05</b>