Nagar Nigam, Kota

Smart City
MISSION TRANSFORM-NATION
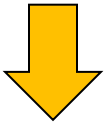
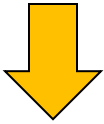## Revision of
Smart City Proposal for Kota
For 2nd Round

May, 2016

www.mygov.in
www.smartcitykota.com,
www.facebook.com/smartcityKota,
www.kotamc.org,

Smart City Mission

Short listing of 100 cities by States	• Intra state competition : 100 cities shortlisted • **Kota is proud to be one of these 100 potential smart cities**
⬇	
Round I - City's Challenge - Top 20 cities selected	• Each of 100 shortlisted city – to prepare **Smart City Proposal (SCP)** • **Top 20 cities** selected in this challenge round
⬇	
Round II- City's Challenge - Top 40 cities to be selected	• Remaining 80 cities – to prepare revised **Smart City Proposal (SCP)** • **Top 40 cities** to be selected in 2nd round

Smart Cities Mission – focus areas

FOCUS AREAS

Core Infrastructure

- Adequate water supply,
- Assured electricity supply,
- Sanitation, including solid waste management,
- Efficient urban mobility and public transport,
- Affordable housing, especially for the poor,
- Robust IT connectivity and digitalization,
- E-Governance and citizen participation,
- Sustainable environment,
- Safety and security
- Health and education.

Smart Solutions

- E governance and citizen service
- Energy management
- Urban mobility
- Waste Management
- Water management, etc

SMART CITY PROPOSAL – Components and approach

Compact approach - Area based development

- **Retrofitting** - existing area consisting of more than 500 acres will be identified
- **Redevelopment** - an area of more than 50 acres
- **Green field development –** vacant area (more than 250 acres)

Pan city Component - Smart Solutions for city-wide infrastructure

- Intelligent traffic management system
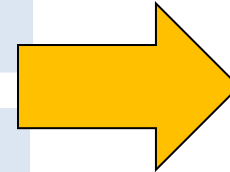- Waste water recycling
- Smart meters, etc

Shift from a 'Project' to 'Area Development' approach
Greater onus / responsibility on State/City Governments

iMaCS

Smart City Mission
Components and Approach

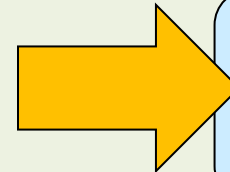**1. Baseline Assessment of the city**

2. Vision, Goals and Strategy

➡ **Prepared in Round - I**

3. Compact approach - Area based development

- **Retrofitting** - existing area - more than 500 acres

- **Redevelopment** - area of more than 50 acres

- **Green field development –** vacant area (> 250 acres)
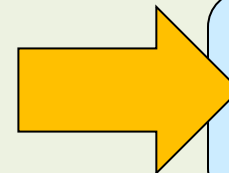
➡ **Need to be revised in Round - II**

4. Pan city Component - Smart Solutions for city-wide infrastructure

- Multiple Smart Waste Management Solutions

- Smart Corridors – Eleven Proposals identified

➡ **Under discussion in Round - II**

SCP formulation – Consultative process

Retaining it as per Round - I SCP
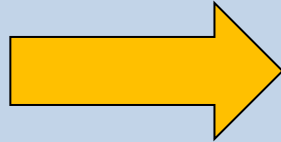
Stage 1 →
- **City Vision and Goals**
- **Pan City Proposal (Under discussion)**

Consultation on Area Based Proposal for Round - II SCP

Stage 2

SEEK INPUT →
- Options for **Area based Development Proposal and Pan City Proposal**
- **Key Issues to be addressed**

Stage 3

DISSEMINATE PLANS →
Inform Citizens about –
- **Area based Development Proposal**
- **Pan City Proposal**

Area based Development
Learning's from top five Smart Cities

Parameters	Bhubaneswar	Pune	Jaipur	Surat	Kochi
Area (Sq Km)	135	276.4	484.64	335.82	107.13
Population (2011)	8,40,834	31,24,458	30,46,163	44,67,797	6,02,046
Budget					
Revenue Income	144 Cr	4,168 Cr	424 Cr	1,870 Cr	150 Cr
Revenue Exp	126 Cr	1,990 Cr	431 Cr	1,636 Cr	140 Cr
Major RI source	Property Tax (14%)	LBT / Octroi (40%)	Property Tax (6%)	Property Tax (19%)	Property Tax (40%)
Smart City Rank	**1**	**2**	**3**	**4**	**5**
Smart City ABD	Retrofitting + Redevelopment	Retrofitting	Retrofitting	Retrofitting	Retrofitting
Area	985 Acre (~4 Sq Km)	900 Acre (~3.64 Sq Km)	600 acre (~2.5 Sq Km)	2167 Acre (~8.76 Sq Km)	~1729 Acre (7 Sq Km)
Population covered	46,000 (6%)	~40,000 (1.3%)	1,70,000 (5.6%)	4,46,780 (10%)	1,00,000 (17%)

Bhopal (20th Smart City) selected Redevelopment of 350 Acre (~1.41 Sq Km) land whereas Udaipur (16th Smart City) selected retrofitting of 800 acre (~3.23 Sq Km) land.

✓ All Top five cities selected Retrofitting as Area Based Development Option
✓ Area considered is within range of 2.5 Sq Km to 8.8 Sq Km (900 acre to 2167 acre)

What is retrofitting of an area?

- **What is Retrofitting of an area? :** Introduce planning in an existing built-up area to achieve Smart City objectives to make the existing area more efficient and liveable.

- What is to be provided
  - Identify gaps in civic facilities/ services and provide facilities/ services
  - Promote tourism, economic and commercial activities with mixed use development;
  - Open spaces and recreational areas;
  - Proper road network with good transportation facilities;
  - Protection and conservation of water bodies; adequate education and health facilities etc.
  - Essential features and Smart solutions

Smart City essential features …1

SN	Features	Definition
1.	Citizen Participation	Incorporation of citizens' views to bring maximum benefit for all.
2.	Identity and Culture	Unique identity; Why in this city and not somewhere else
3.	Economy and Employment	Robust and resilient economic base and growth strategy
4.	Health	Health care for all its citizens
5.	Education	Education for all children in city
6.	Mixed Use	Different land use in same place
7.	Compactness	Concentrated neighborhoods, 10 min walk for public transportation
8.	Open space	Sufficient and usable public open spaces dispersed throughout the city
9.	Housing and inclusiveness	Housing for all
10.	Transportation and Mobility	Plenty transport options for all income levels
11.	Walkable	Roads designed equally for pedestrians, cyclists and vehicles
12.	IT Connectivity	Robust internet network allowing high speed connections

Smart City essential features … 2

SN	Features	Definition
13.	Intelligent Government Services	Easy interaction with its citizens
14.	Energy supply	Reliable 24 X 7 electricity supply
15.	Energy Source	10% of electricity generated by renewable sources
16.	Water Supply	24 X 7 supply of water that meets national and global health standard
17.	Waste water management	Smart meters, Rainwater harvesting
18.	Water quality	Treating sewage to prevent pollution of water bodies
19.	Air quality	Air quality that meets international safety standards
20.	Energy efficiency	Green buildings, Street Lights, Transit systems
21.	Underground electric wiring	Reduce blackouts due to storms, eliminate unsightliness
22.	Sanitation	Open Defecation Free City
23.	Waste Management	Environmentally and Economically sound waste management system for garbage
24.	Safety	High Public safety levels for women, Children and elderly.

Area based Development (ABD)
Tentative areas identified

Option 3

- **Area Comprising – Between Station Road and River Chambal till Nehru Garden, Bhimganj Mandi, Civil Lines**
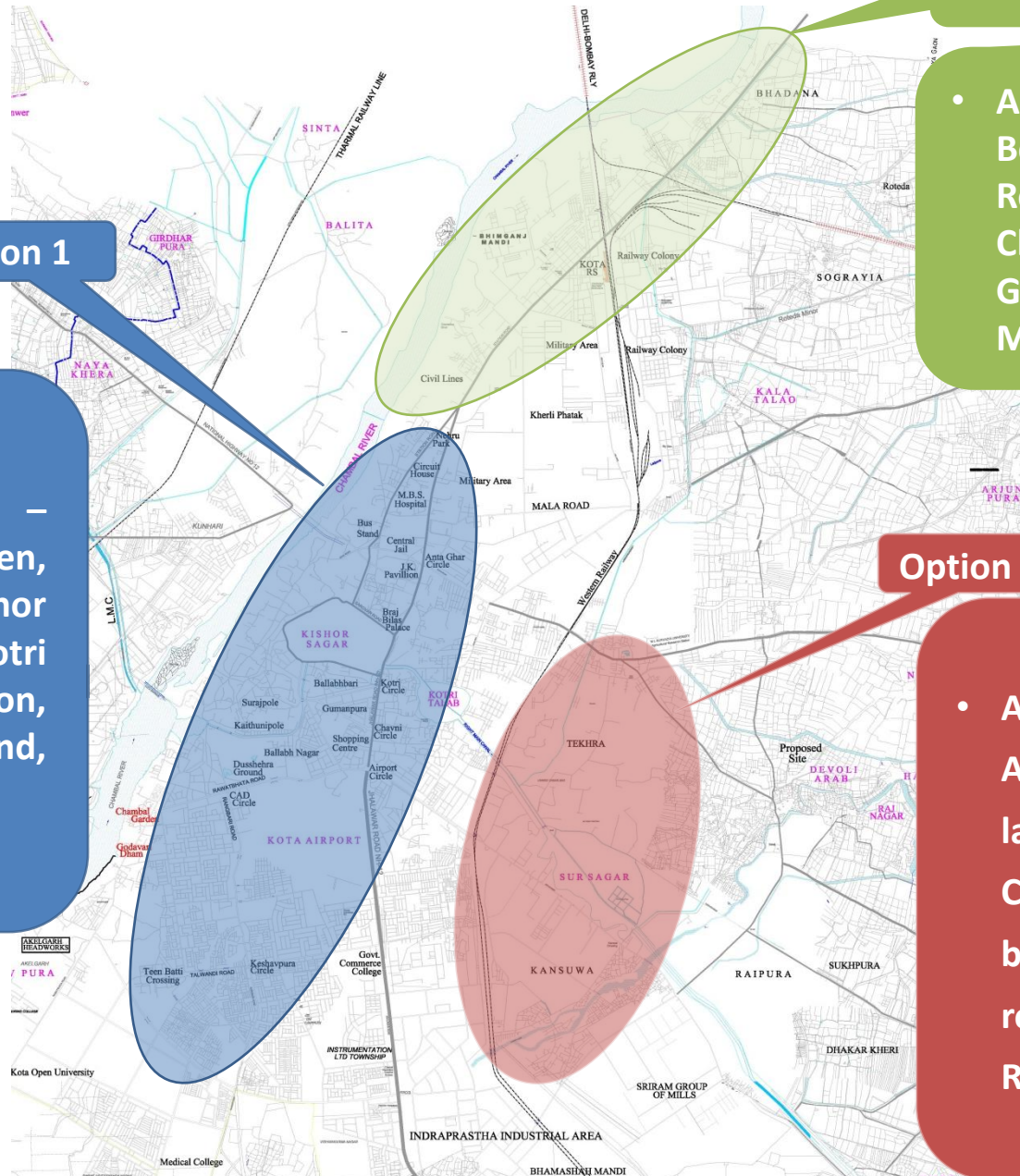
Option 1

- **Area Comprising – Nehru Garden, Collectorate, Kishor Sagar lake, Kotri Talab, JK Pavilion, Dusshera Ground, Coaching City**

Option 2

- **Area Comprising – Around Sur Sagar lake, Right Main Canal, Area between Baran road and Dakaniya Railway Station**
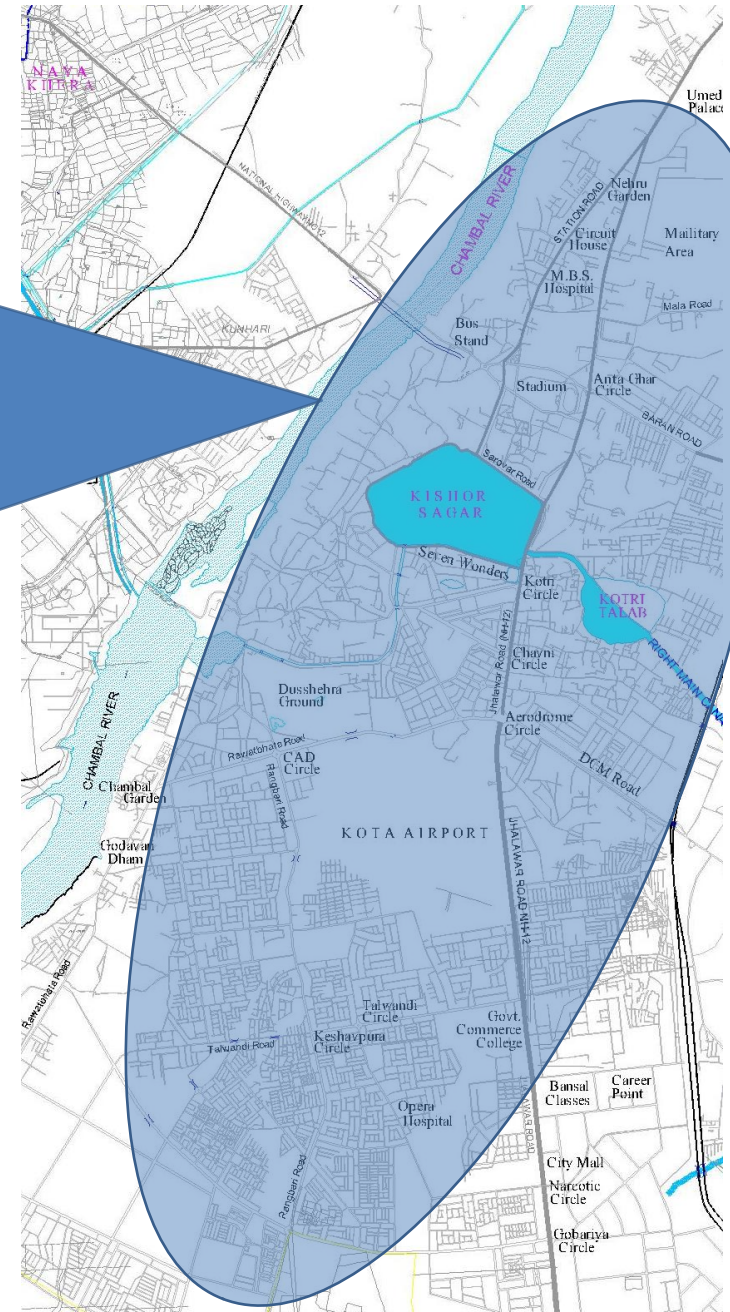
Area based Development (ABD)
Tentative activities proposed

- **Up gradation of basic Infrastructure facilities**
- **Smart infrastructure including – Smart street lights, Wi-Fi, CCTV, use of Solar power**
- **Lake Conservation** and development, & channelization of nallahs
- **Khelgaon**: Sports and Recreational center of city to be strengthened
- **Parking plazas and Street parking management system**
- Promote **Eco-mobility** – cycle tracks, Green walkways, pedestrian pathways covered with solar panels, Public bicycle sharing system
- **Waste water recycling & reuse for industries**
- **Smart Intermediate Para Transit (IPT)** : e-rickshaws, GPS, e vehicle- charging stations, Kiosks, control centre
- **Smart public transport** : GPS, ITMS, smart cards for last mile connectivity, multi modal integration
- Continuous water supply, waste water management, sanitation facilities, Junction improvement, traffic control system
- Improvement in Social facilities – schools, hospitals etc.
- Create Open Defecating free area, and Slum Free Area

Area based Development (ABD)
Tentative activities proposed

Option 2

- **Urban Mobility Corridor** along DCM road
- **Sursagar Lake development** and channelization of nallahs
- **Economic and tourism activities** around Sursagar lake
- **Slums –** sewerage, sanitation & recreational, education and skill development facilities
- **Promote eco-mobility –** bicycle lanes, Green walkways, pedestrian pathways covered with solar panels, Public bike sharing
- **Skill Development & incubation center** near SMEs and Large Industries .
- **Smart public transport** : GPS, ITMS, smart cards for last mile connectivity, multi modal integration
- **Smart IPT** : e-rickshaws, GPS, charging stations, Kiosks, control centre
- **Street parking management system**
- Access to all municipal services as per service level benchmark
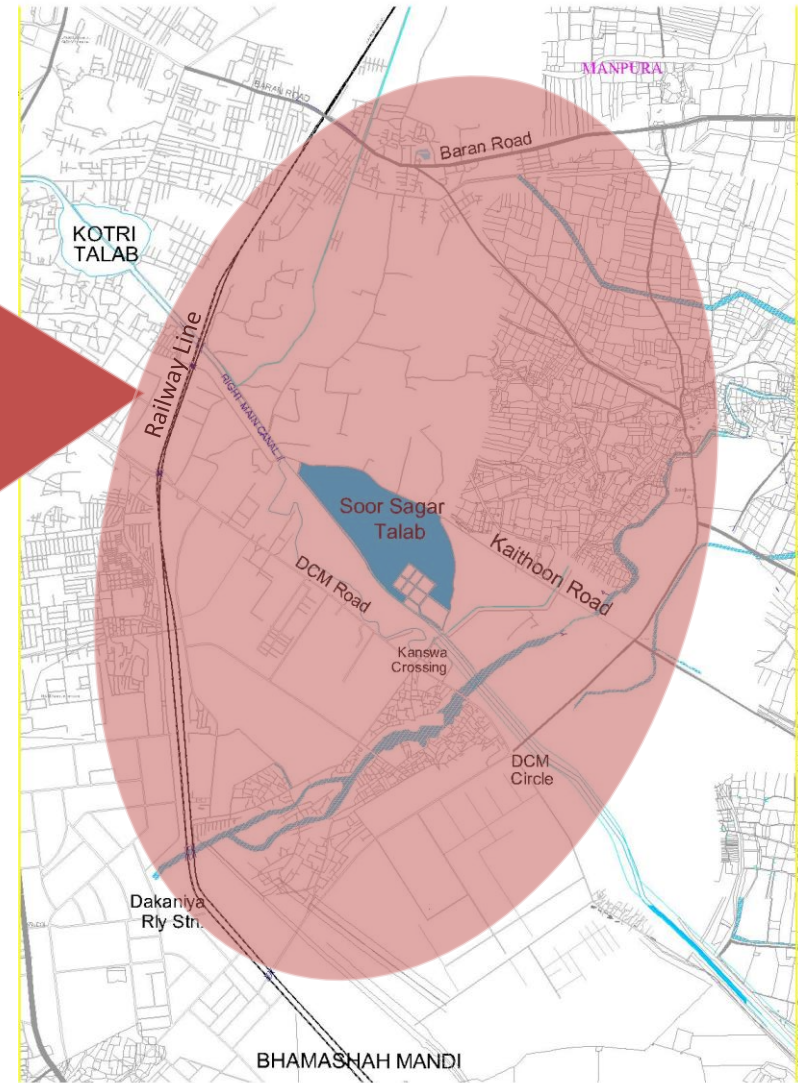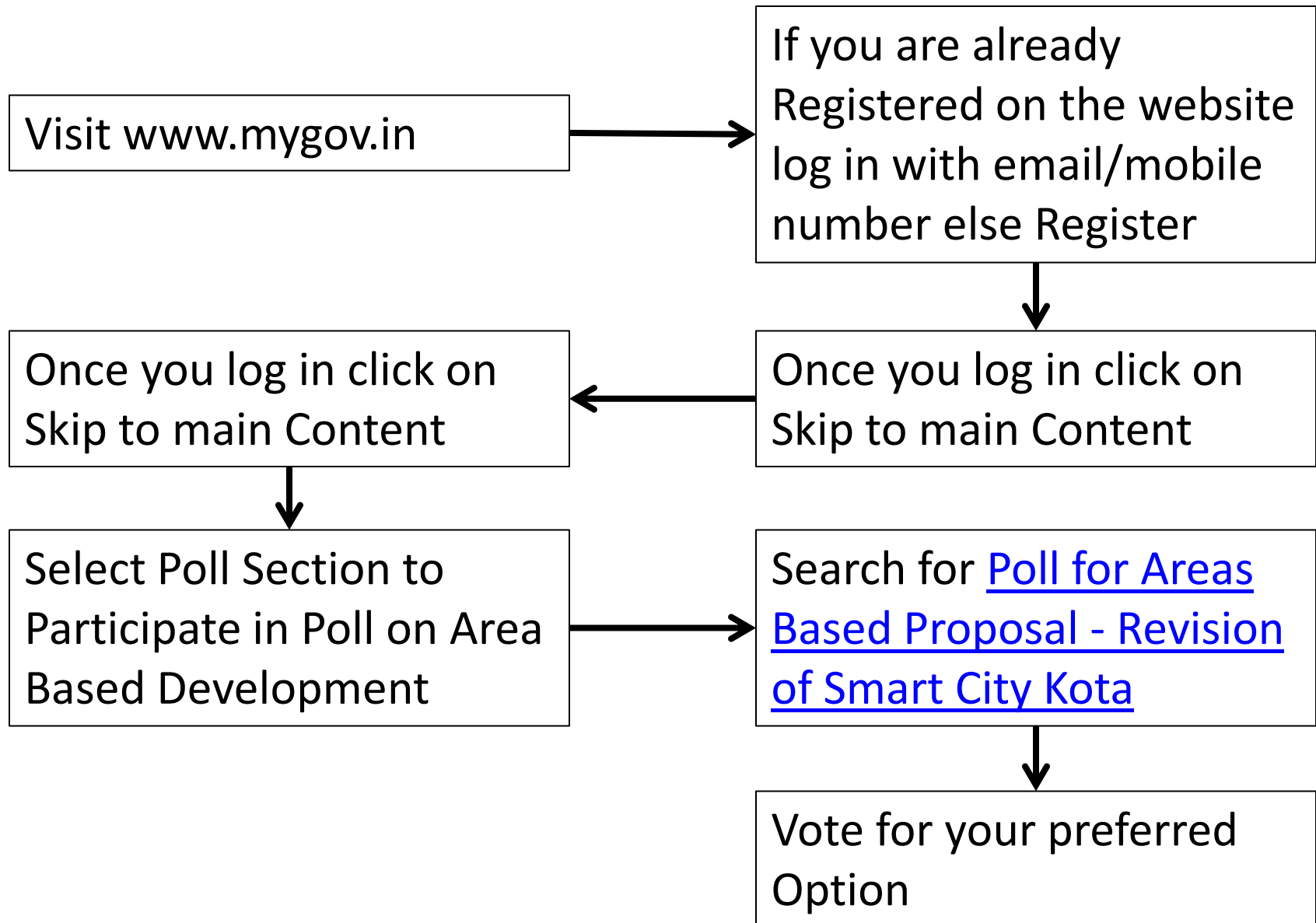
Area based Development (ABD)
Tentative activities proposed

- Beautification at **Riverfront** and **City Entry point**
- **Promote eco-mobility** – bicycle lanes, Green walkways, pedestrian pathways covered with solar panels, Public bike sharing
- **Smart public transport** : GPS, ITMS, smart cards for last mile connectivity, multi modal integration
- **Smart IPT** : e-rickshaws, GPS, charging stations, Kiosks, control centre
- Improvement of footpath, road crossing, roads, traffic control system etc.
- Street parking management system
- **Recreational areas and gardens** to promote social inclusiveness
- Storm water drainage
- Access to all municipal services as per service level benchmark
- **Bhimganj Mandi** development,

CITIZEN PARTICIPATION - SMART CITY KOTA – ROUND 2
Participation for <u>AREA BASED DEVELOPMENT POLL</u>

Visit www.mygov.in → If you are already Registered on the website log in with email/mobile number else Register

Once you log in click on Skip to main Content ← Once you log in click on Skip to main Content

Select Poll Section to Participate in Poll on Area Based Development → Search for <u>Poll for Areas Based Proposal - Revision of Smart City Kota</u>

Vote for your preferred Option

CITIZEN PARTICIPATION - SMART CITY KOTA – ROUND 2
Participation for DISCUSSION

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Select Discussion Section to Participate in Discussion

Search for Smart City Mission of Kota for Round - 2

Provide your Comments/ Suggestions
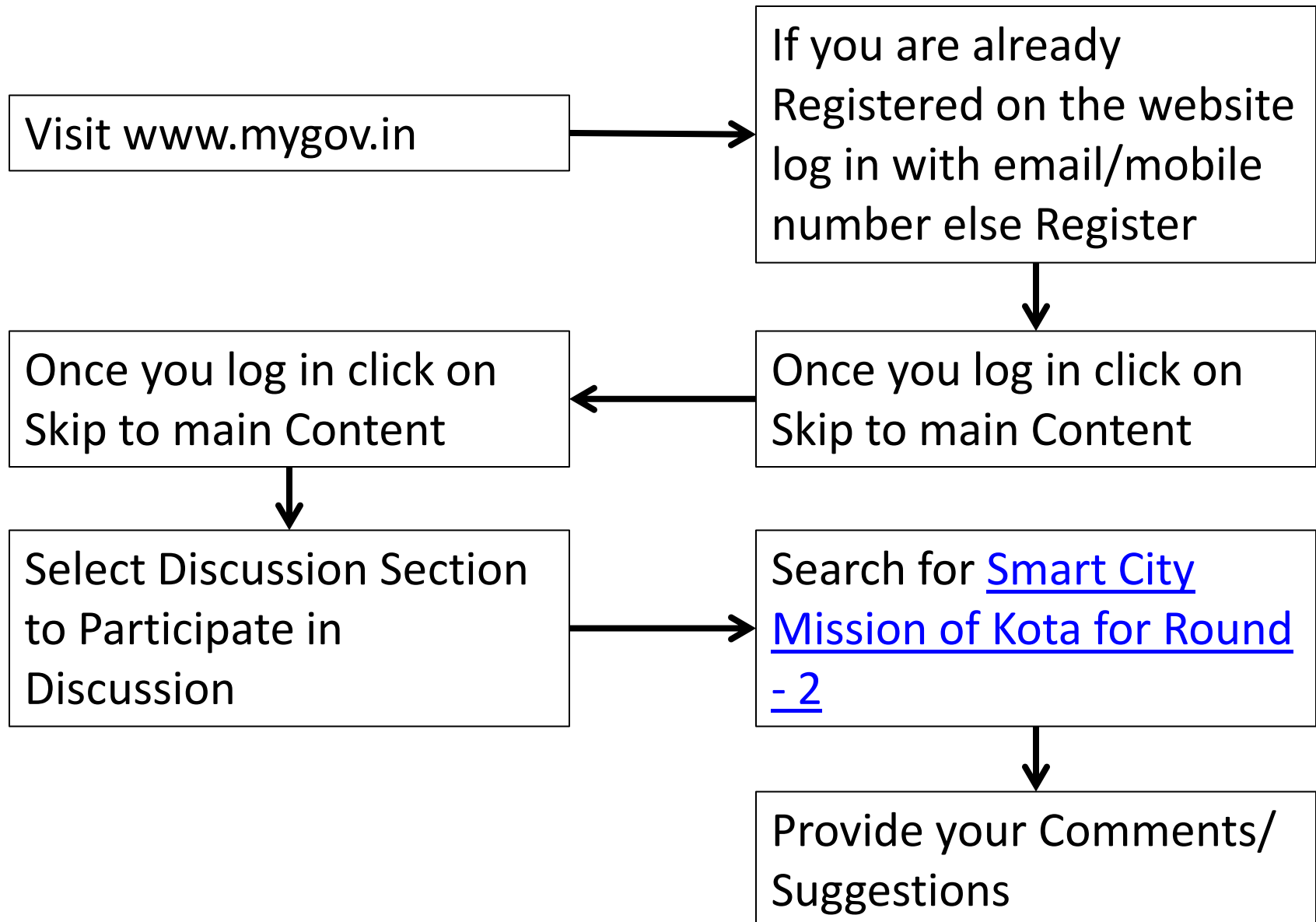
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1. MyGov Discussion: https://mygov.in/group-issue/smart-city-mission-kota-round-2

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