No.K-15016/61/2015-SC-1 Government of India Ministry of Urban Development

Nirman Bhawan, New Delhi Dated: 14th September, 2015

OFFICE MEMORANDUM

Subject: - Smart City Proposal (SCP) template.

After completion of Stage-1 of the Smart Cities Challenge, States/ULBs have to prepare for the Stage-2 of the Competition. In accordance to para 9.1.2 of Smart Cities Mission (SCM) Guidelines, each of the potential 100 Smart Cities have to prepare their Smart City Proposals (SCP). Moreover, the SCP will be assessed on a set of fair, objective and transparent evaluation criteria (Annexure 4) by a Committee consisting of a panel of national and international experts, organisations and institutions (para 9.1.3)

- 2. In order to make the process of evaluation open, fair and transparent, a template for the SCP was developed and discussed in the break-out session on 26th June, 2015 attended by more than 150 stakeholders including State Govt. officials, Urban Local Bodies (ULBs), Urban Sector Experts and Research Institutions. Again, the Smart City Proposal Format/Template was also discussed with States/Cities in detail in the Regional Workshops held on 3rd, 7th and 12th September, 2015 in Delhi, Hyderabad and Kolkata respectively.
- 3. The Ministry of Urban Development (MoUD) has designed a standardised template for use of States/ULBs to prepare the SCP for submission in Stage-2 of the Competition. A copy of the SCP template is enclosed and may also be seen on Ministry's website (www.moud.gov.in). The SCP has to be submitted online and detailed instructions will be issued soon.
- 4. It is requested that the Smart City Proposal may be prepared strictly in accordance with the template and the timelines set for various activities adhered to.

Encl: As above

(Sanjay Sharma) Under Secretary to the Govt. of India

Tel No. 23062742

To

All Principal Secretaries (UD/MA)/ Municipal Commissioner of Smart Cities.

Copy to:

Team Leader, Technical Cell, MoUD for taking action for uploading the same on the website of Smart Cities Mission.

INDIA SMART CITY MISSION MISSION TRANSFORM-NATION

THE SMART CITY CHALLENGE STAGE 2

SMART CITY PLAN & PROPOSAL (SCP)

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NOTES

- 1. This document must be read along with the Smart City Mission Guidelines issued by the Ministry of Urban Development, Government of India. Guidelines are available on the website <smartcities.gov.in>
- 2. An electronic version of the Proposal format is also available on the website for starting the process of preparation. See: 'Downloads' > 'Memos'

GLOSSARY OF KEY TERMS

Goal:

A higher level result, i.e. a desired impact. The national level goals for the Smart Cities Mission are to provide core infrastructure, give a decent quality of life to citizens, promote a clean and sustainable environment and apply 'smart' solutions. (Guidelines 2.3)

Impact:

An examination of the wider long-term effects that the action contributes – social, economic, technical, environmental – to citizens, groups of people and institutions. Impact can be immediate and long-range, intended and unintended, positive and negative, macro and micro. Impact studies address the question: what real difference has the action made? How many residents have benefited from the Mission?

Purpose:

The overarching aim that the project seeks to achieve; the change in citizen conditions, systems, or institutional performance.

Outcome:

At the general objective level, these are the effects over the mid-term level (one to several years); these intermediate benefits are generated over time and are directly linked to the accumulated achievement of outputs

Output:

The actual deliverable; what the operation can be held accountable for producing; a short-term (achieved within a 12-month period), tangible result of interventions, actions or programme inputs

Activity:

The main activity that must be undertaken in order to accomplish the output; any process used to transform a combination of inputs/resources (human, information, material, financial) to achieve results (outputs, outcomes, impacts)

Inputs:

Budget by activity; monetary, physical and human resources required to produce outputs

Strategy:

Possible ways and approaches to achieve results, overcome constraints and capitalize on opportunities

Result:

A describable and/or measurable change in state – planned and unplanned – at the output, outcome, impact level, that can be attributed to an intervention

A. INTRODUCTION

In the imagination of any city dweller in India, the picture of a Smart City contains a wish list of infrastructure and services that describes his or her level of aspiration. To provide for the aspirations and needs of the citizens, urban planners need to aim at developing the entire urban eco-system, which is represented by the four pillars of comprehensive development — institutional, physical, social and economic infrastructure. This can be a long-term goal, but cities can work towards developing such comprehensive infrastructure and improving quality of life incrementally, adding on layers of 'smartness' through planned, inclusive and sustainable interventions.

Each city aspiring to be smart has to formulate its own concept, vision, strategy and plan (proposal) that is appropriate to its local context, resources and levels of ambition. Thus, each city will articulate its own model of Smart City – based on national and global models and best practices – such that it can answer the question: What kind of Smart City do you want and how will you achieve it?

The answer to this fundamental question will be contained in this Smart City Plan & Proposal (SCP), which is prepared using the principles of strategic planning and includes your city's vision, your area-based development plans and pan-city initiatives, your plan for mobilization of resources and ensuring that the city achieves the intended sub-goals, outcomes and impacts in terms of infrastructure up-gradation and smart applications that improve the quality of life and make the city inclusive and sustainable. The SCP is collaborative because the objectives and funds of all the citizens, government departments, parastatals and private agencies are dovetailed during the process of preparing the SCP.

The SCP must capture the logical flow of thinking that links the National Mission Goals with city-level sub-goals that are specific to the City. The SCP should identify the purpose/objective of the Area based developments and the Smart Solutions being applied in the Pan-City proposal, and identify the Results – consisting of Impacts, Outcomes and Outputs – of each project component (See Glossary). In sum, the SCP contains the story of transformative change that is being scripted by the citizens and local government of your city.

The Smart City Features (attributes) given in Annexure 1 will be used to locate the City subgoals within the National goals. Annexure 1 contains the detailed descriptions of each of the above Smart City Features, along with references to relevant clauses in the Smart City Mission Guidelines. The 24 smart city features are given below:

1	Citizen participation	13	Intelligent government
2		10	Intelligent government services
2	Identity and culture	14	Energy supply
3	Economy and ample	::	Energy supply
•	Economy and employment	15	Energy source
4	Education	4.0	
•		16	Matar august.

⊏aucation 16 Water supply 5 Health 17 Waste water management

6 Mixed use 18 Water quality 7 Compactness 19 Air quality

8 Open spaces 20 Energy efficiency 9

Housing and inclusiveness Underground electric wiring 21 10

Transportation & Mobility 22 Sanitation

11 Walkability 23 Waste management

12 IT connectivity 24 Safety

In Annexure 2, four scenarios are described for each smart city feature. Your city will select the scenario that most accurately reflects the existing conditions in the city. After citizen consultations (Refer Part C) the needs and the priorities of the citizens will be known. At the same time the results of the desk-work and city profile (Refer Part B) done by the consulting firms/handholding agencies will also be available to the city. A synthesis of the city profile and the citizen consultation will lead to the determination of the aspirations of the residents of the city. The aspiration will be described in column 'J' in Annexure 2 as the scenario that the city wants to achieve, and the most effective means to achieve the aspiration will be indicated in column 'K'. The aspirations of the city with regard to the 24 smart city features will provide guidance for articulating the Vision and Sub-goals of the city.

The strategy will be created through the combination of citizen consultations (eg. citizen driven solutions identified in Round 2 of citizen engagement; Refer Part C) with the adoption/adaptation of models/best practices from the list of appropriate Smart Solutions/Areabased 'Smart' developments in India and the World (prepared by consulting firms/handholding agencies), by separating specific aspects/elements from the models/best practices and combining these to create something new, etc.

The strategy will contain at least one Smart Solution in which ICT (Information & Communication Technology) is applied to bring about improvements in infrastructure and services throughout the city (Pan-city). Smart Solutions provide one way to jump across several scenarios (eg. from Scenario 1 to Scenario 4; Refer Annexure 2) in a short time.

Another component of the strategy will be to transform existing areas (retrofit and redevelop), including slums, into better-planned ones, thereby improving the quality of life of the whole City. The strategy may also include proposals for new areas (green-field) that can be developed as well-planned and fully serviced settlements in order to accommodate the expanding population.

The pan-city and area-based components of the strategy will be seen as demonstrations of what is possible in your city. Ultimately, an area-based development is expected to find replication in other parts of the city (and to other cities); thus, the entire city has to be made ready for this transformation by providing basic services to all citizens. In order to envisage the comprehensive development of the city, complementary Missions such as AMRUT and Swachh Bharat will be converged and form part of the city-wide strategic plan (Refer Part E).

The transformation of your city in this way will improve quality of life, create employment and enhance incomes for all, especially the poor and the disadvantaged, leading to inclusive and sustainable Cities.

The contents of the Smart City Plan & Proposal (SCP) are described in detail in Parts 'B' to 'K' of this document. Each Part contains a number of questions, which must be answered as per the word limit and format provided for each question. There are 57 questions, numbered in sequence.

B. CITY PROFILE

Before any city can undertake the challenge of becoming a smart city, it must take stock of its ground realities and its potential for transformation. The more advanced its ability to diagnose its problems and potentials on the basis of data and insightful research and extensive citizen engagement, the more likely it is to achieve success. The analysis of information and data will provide the evidence that is needed to convince citizens, stakeholders as well as investors. The causalities and linkages between the sub-goals, objectives/impacts, outcomes and outputs will form a logical framework that can be used to monitor the impacts and to anticipate the risks and measures of success. The consulting firms/handholding agencies should prepare these

connections in simple, easily understandable language for citizen consultations. The consulting firms/handholding agencies should start with a comprehensive desk review.

Conduct a Desk Review of all information and data which can be harnessed from the Town/City Directory prepared by the Census of India and the National Sample Survey Organization as well as other surveys and data collected by various departments (eg. industries, social welfare, education, health, employment, etc.) and agencies (eg. public works, roads and transport, etc). It is recommended that you also review the previous/current development plans (city-level and site-specific) and the studies conducted for the preparation of the City Development Plan, City Sanitation Plan, City Mobility Plan and Master Plan and any other plans for the city or for specific areas of the city. Other sector specific or thematic plans can also be referred to add further depth to the proposal.

No baseline survey is planned or envisaged for the present. Your City Profile will include the following four components: Baseline Information, Key Performance Indicators, the Mapping of your city, and the City-level Self Assessment. These are described in further detail below.

BASELINE INFORMATION: In Stage 1 of this Smart City Challenge, during the process of being nominating by your State Government, you have reported the status of your city on the following 13 indicators and have achieved the scores indicated in Table 1 below.

	TABLE 1					
<u> 100.</u>	Criteria	Total Score	Score obtained			
	Increase over Census 2011 or Swachh Bharat baseline on number of household sanitary latrines (whichever is less)	10	obtained			
2	Making operable Online Grievance Redressal System with response being sent back to complainant	5				
3	At-least first monthly e-newsletter published	5				
4	Electronically place project-wise municipal budget expenditure information for the last two financial years on the website	5				
5	Levy of compensatory penalty for delays in service delivery	5				
6	Collection of internally generated revenue (e.g. taxes, fees, charges) during the last three FYs (2012-15)	10				

7	Payment of salaries by ULB up-to last month		
8	Audit of accounts for FY 12-13	5	
9	Percentage contribution of tax revenue, fees and user charges, rents and other internal revenue sources	5	
		10	
10	Percentage of establishment and maintenance cost of water supply	10	├
11	works during FY 2014-15	10	
12	Percentage of City-level JnNURM Reforms achieved	,,,	
13	Percentage of completion of Projects sanctioned upto March, 2012 under JnNURM	10	<u> </u>
	Sanotioned apto March, 2012 under JnNURM	10	
	Total	100	

The baseline information in Table 1 provided a quick assessment of the readiness and performance of your city government (Urban Local Body) and its ability to achieve the smart city sub-goals. However, the complete Profile of your city will emerge from a combination of the baseline information with additional information and data obtained from intensive desk review and citizen engagement.

KEY PERFORMANCE INDICATORS: The following Key Performance Indicators (KPIs) are particularly significant for measuring the capacity of the ULB to meet the expectations of the citizens:

- 1. In the last three years, how has the Operational Efficiency of public entities in your city changed in terms of the following indicators {Describe in max. 50 words each, mentioning the source of the data; words used to describe the source will not be counted}:
 - a. Average time taken to give building plan approvals
 - b. Increase in property tax assessments and collections
 - c. Scheduled outages in a month
 - d. Unscheduled outages in a month
 - e. Reduction in NRW/UFW and AT&C/T&D losses
 - f. Increase in percentage of population covered by grid based power
 - g. Water & sewerage user charges collected as a percentage of current annual demand
 - h. Property tax collection as a percentage of annual demand
 - i. Cost management interventions like location tracking of vehicles, ambient light sensors, etc.
- 2. In the last three years, how has the Traffic Situation changed in terms of the following indicators {Describe in max. 50 words each, mentioning the source of the data; words used to describe the source will not be counted}:

- a. Average traffic speeds
- b. Average commute times and distances for different groups
- c. Availability of pedestrian facilities
- d. Availability of public transport
- e. Congestion intensity on arterial city roads
- 3. In the last three years, what have been the changes in Administrative Efficiency due to the use of Information and Communication Technology (ICT) {Describe in max. 50 words each, mentioning the source of the data; words used to describe the source will not be counted}:
 - a. Overall attendance of functionaries
 - b. Two-way communication between citizens and administration
 - c. Use of e-Gov to enable hassle free access to statutory documents
 - d. Dashboards that integrate analytics and visualization of data
 - e. Availability of basic information relevant to citizens
- 4. In the last three years, what has been the change in the Availability of Affordable Housing; i.e. through construction of new units for the EWS or the redevelopment of slums? {Describe in max. 100 words, mentioning the source of the data; words used to describe the source will not be counted}

MAPPING: Mapping of information and data is a crucial step in assessing the ground conditions in your city and in engaging with the citizens, who will be naturally oriented to the city in terms of their cognition of the city, which is determined by where they live and work and conduct other daily and occasional activities. Create a suitable Base Map of your city with all the relevant systems and networks as they exist today, showing its physical, administrative and other characteristics, such as natural features, heritage areas, areas prone to flooding, slums, etc. The base map should show the regional context in which your city is located and should contain the spatial and physical layout/morphology of your city, the street network, the open and green spaces, the geographical features and landmarks and the infrastructure, including for transportation, water supply, sewerage, electricity distribution and generation, and so on.

Using this base map, represent, with the most effective method available, as much information and data about your city as is considered vital/significant. Please note that the mapping will be a significant tool for identifying the areas that can be potentially taken up for area-based initiatives and development projects and for sharing these alternatives with the citizens during consultations. The effort should be to make this 'base map' as accurate and as complete as

possible, by anticipating the future needs as per the city profile, and by adding detail wherever necessary.

CITY-LEVEL SELF ASSESSMENT: Kindly complete and submit the City-level Self-Assessment (Annexure 2), which will assist you in articulating your city profile with reference to the Smart City Features described in Annexure 1. While the self-assessment defines "where you are today", the same form can also be used to indicate the aspiration: "where you want to be tomorrow." In Column 'H', please indicate the option that most closely describes your city. Add any relevant indicator or quantitative information that you may have in Column 'I'. Note that you will not be penalized if you do not have the corresponding quantitative information; however, you should make every attempt to obtain accurate and reliable information and data.

5. In the medium and long run, how will the City become 'smart' as set out in the aspirations described in Annexure 2? Describe a pathway for the city to become 'smart', containing: (i) status of core infrastructure elements in your city; (ii) application of possible Smart Solutions at the Pan-city level; and (iii) strategies that treat the area-based developments as precursors to a city-wide transformation. The description of the pathway will be like a hypothesis or proposition that you can share with the citizens during outreach and consultations. {Max. 500 words}

Your City Profile will now be reasonably complete. It takes into account the Baseline Information in Table 1, the Key Performance Indicators in questions 1-4 and the Mapping of your city. Based on this desk-based research, you should be able to prepare preliminary responses to the Columns 'H' and 'I' in the Self-Assessment sheet contained in Annexure 2, which will assist you in engaging with residents and stakeholders. You have also articulated a preliminary strategy in response to Question 5.

Note that the contents of Annexure 2 will be finalized after you have completed Round 1 of citizen engagement (Refer Part C). During consultations with citizens and stakeholders, you will refer to the City Profile and the partially completed self-assessment sheet, which will form the basis for identification and selection of the area-based developments and defining the strategy for development.

C. CITIZEN ENGAGEMENT

The process for planning the Smart City commences with the preparation of the City Profile and thereafter progresses to intense citizen engagement at multiple levels in the city using different means. This can involve better communication by government, soliciting feedback for problem identification, co-creating solutions and involving local citizen champions, while ensuring the active participation of various groups of people, such as youth and students associations, welfare associations, tax-payers associations, senior citizens, special interest groups, slum dwellers and others.

The profiling of the city is also the basis for selecting the appropriate techniques and the target groups for the engagement strategy. Demonstrating that a comprehensive engagement process has been conducted is a critical element of the Smart City application. Citizen engagement provides support for projects and reduces potential conflict by ensuring that projects meet the most urgent needs for communities. If the citizens are collectively supportive of an initiative or project, there is also a reduction of risk for the promoters and investors. Most significantly, citizen engagement provides the opportunity to co-create the smart city by identifying creative and innovative solutions to common urban challenges.

Process to Follow: The City Profile will assist you in guiding the citizen engagement towards a productive outcome, such that the deliberations are well-informed and moving towards consensus. You will be conducting citizen engagements at three critical stages of preparing your proposal, corresponding to three rounds of consultations:

- Round 1: To establish a city vision, city-level sub-goal and strategy to achieve objectives
- Round 2: To get feedback on your ideas for pan-city solution/s and area-based developments
- Round 3: To inform citizens about the intended pan-city solution/s and area-based development/s, the implementation and financing plans

Devise the most effective methods to ensure maximum and most productive participation of citizens at each stage of engagement and during each round. These will need to be timed perfectly and may run concurrently with your desk research and planning work. The effort should be to achieve maximum touch-points (public contact), to keep the deliberations well informed with evidence (information & data), to ensure inclusion of the diverse groups and

communities in the city, and to steer the deliberations towards broad consensus. You should be mindful of the language employed and the fact that one system of engagement might be needed to support another, thus highlighting the significance of a comprehensive engagement strategy.

Illustrative examples of various citizen engagement methods are given below:

- <u>Face-to-face consultations</u>: Town Meetings, ward-level consultations, focus-group discussions (FGDs)
- <u>Written submissions</u>: Invite and receive suggestions in writing (eg. manuscript) from those who may not be able to participate in either the face-to-face consultations or the online or mobile engagements.
- Local Print, Radio & TV: The media can be a useful ally in the effort to establish clear vision and consensus.
- Online crowd-sourcing and polling: You can conduct a survey of citizens to gather their ideas about the solutions that are needed in your city and to seek their suggestions or establish priorities. This can be done using online platforms such as the 'MyGov' portal.
- Mobile Polling: Define key questions that can be easily understood by most citizens and
 ask them to poll the options. This method can be very effective in defining priorities
 between a set of options (eg. deliberative polling). For slum areas, create a Wi-Fi hot
 spot and use an App to increase participation of the usually excluded residents. Such
 innovative methods of citizen inclusion will be preferred.
- <u>Pictorial</u> representations: Pictorial representations and other mediated methods should be used to include residents who are unable to read and write.

Kindly answer the following questions to capture the range, substance and outcomes of your citizen engagement strategy:

- 6. What were the different citizen engagement methods used in your city during each of the three rounds of engagements? For each method, give details of how many citizens were involved and what kind of individuals/groups/communities were involved. Give number of residents who participated from records of MyGov, usage of Wi-Fi hot spots, SMS's received, manuscripts, crowd-sourcing responses, etc. {Describe in max. 100 words each}
 - a. Round 1: Method/s, extent, inclusion

- b. Round 2: Method/s, extent, inclusion
- c. Round 3: Method/s, extent, inclusion
- 7. Describe in tabular form, the Indian and global models and best practices for Smart Solutions placed before citizens and the reaction of the citizens on their applicability and use after local adoption/adaptation (Describe in max. 250 words)
- 8. What are the key insights/suggestions/feedback that emerged from each round of engagement? (Summarize in max. 200 words each)
 - a. Round 1: Issues/Needs, Priorities and citizen-generated solutions identified in Column 'K' on self-assessment sheet
 - b. Round 2: Feedback/suggestions (including the voices of the marginalized) on the benefits and costs of Pan-city solution/s and Area-based development/s
 - c. Round 3: Feedback and suggestions on the draft proposal, especially the implementation and financing plans.
- 9. After the citizen engagement, fill out the second part (Column J) of the City-level self-Assessment worksheet outlining the aspirations of your city based on the feedback obtained from citizens in Round 1. In Column 'K', mention the single most significant initiative or input that will help your city to achieve the 'Advanced' level that is described in Column 'G'. {Max. 50 words per cell}
- 10. Which suggestions or solutions provided by citizens during the engagement process were finally incorporated into your smart city proposal? How were contrary voices that disagreed with your ideas accommodated in the strategy and planning? {Describe in max. 250 words}

VISION & SUB-GOALS D.

The goals of the Smart Cities Mission (Mission Transform-nation) are to promote cities that provide core infrastructure, give a decent quality of life and a clean and sustainable environment to their citizens and apply smart solutions to improve services and infrastructure. During Round 1 of the citizen engagement process, the attempt must be to engage the citizens with the task of collectively constructing a vision and sub-goals for the city that are contained within the overarching National goals.

A strategic vision shapes a preferred future for a city; it provides direction for the activities of the municipality, citizens and stakeholders; and ensures that citizens, city agencies, and stakeholders are working toward those shared sub-goals. The city vision captures what your city can be in the future, with the complete transformation being generally achieved within a ten to twenty year time-frame. The vision statement should inspire your city's residents and can even become the branding for your smart city.

VISION

- 11. What is the overarching Vision Statement that emerges from the consultations? {Describe in max. 100 words}
- 12. How does the Vision relate specifically to the city's profile and the City-level Self Assessment completed during Round 1 of citizen engagement? {Describe in max. 250 words}
- 13. How does the Vision include your city's economic, social, environmental and spatial components? {Describe in max. 250 words}
- 14. How does the Vision Statement summarize the impact on key aspects- main economic activity, sustainability and inclusiveness? {Describe in max. 250 words}

SUB-GOALS

The Self-Assessment Form (Annexure 2) prepared after citizen consultation is a useful tool for defining the sub-goals of the City (contained within National Goals). The sub-goals provide the purpose for pan-city and area-based development of the smart city. The goals refer to the national level goals of the Smart Cities Mission as outlined in the guidelines. The sub-goals are the broader aims for your city that you need to define based on citizen engagement and an understanding of your city's context. And the purpose refers to the specific aims of your pan-city and area-based development projects. These should be identified through your face-to-face consultations, or through any or all of the engagement methods used by your city – for example, the citizen priorities articulated in Round 1 of the citizen consultation (captured in Self Assessment sheet, Column 'K') become directives for the sub-goals. This process should be repeated for identifying purposes for each of the area-based developments (especially retrofitting and redevelopment, which are within the existing built-up area) and application of city-wide Smart Solutions.

- 15.Link the vision statement to sub-goals of the city and the sub-goals, in turn, to the National goals. {On a single A-4 sheet, provide a flow chart and description of vision, sub-goals and national goals}
- 16. Describe what impacts you will seek to achieve on the basis of the sub-goals that you have identified. {Describe in max. 250 words}

E. STRATEGIC PLAN

Central to the Mission are the concepts of area-based developments and pan-city solutions. The strategic plan is a plan for delivering core (basic) infrastructure to the entire city over time and consists of Pan-city solution/s and one or more area-based developments. It is important that the city should conceive of a strategic plan that projects an achievable and practical set of interlinked inputs and initiatives that can contribute to achieving the expected outcomes. The Strategic Plan will comprise of responses to the following key questions:

17. In Table 3, list the Missions/Programmes/Schemes of the Government of India (eg. AMRUT, HRIDAY, Shelter for All, Digital India, Make in India and Skill India) and other external projects that can help to achieve the city sub-goals identified in Question 15 (using Annexure 2 as reference) and describe the kinds of inputs/resources and arrangements required to achieve the convergence. {Max. 50 words per cell}

TABLE 3				
Sub-Goals	Missions/Programmes/Schemes/Projects	How to achieve convergence		

18. Describe how the convergence of Missions/Programmes/Schemes/external projects in the pan-city and area-based proposals will maximize their respective impacts. {Max. 350 words}

The next step would be to identify/select the sites for the area-based developments. The criteria for selecting the sites can be highly diverse and complex and require using tools, such as willingness for Tax Increment Financing, polling, local political economy/presence of the poor and vulnerable, data analysis, situations analysis, etc.

19. What could be the pan-city project/solution and the exemplary area-based projects – redevelopment, retrofitting, Greenfield – that can assist the city to achieve the stated sub-goals? {Max. 350 words}

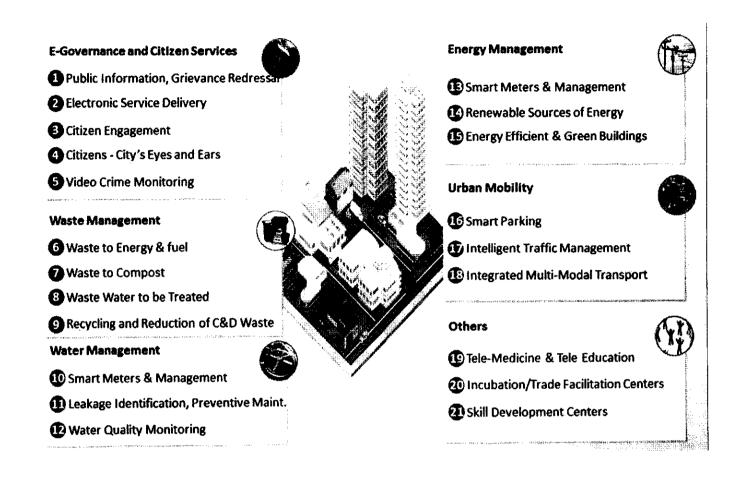
- 20. What is the approach and methodology followed by you in selecting/identifying the nature and extent of the pan-city proposal and the locations of the area-based developments? Describe the basis the city profile, citizen opinion, the opinion of the elected representatives for your choice of sites. {Max. 500 words}
- 21. Why is the approach chosen (retrofitting/ redevelopment/ greenfield or a combination) the most appropriate for the area(s) and for achieving the sub-goals of your city? {Max. 300 words}
- 22.A summary of the strategic plan should be given in Table 4 below. With reference to the performance indicators in the table, set your targets. How far do these targets lead to the achievement of the sub-goals of the City? (Max. 50 words per cell).

	TABLE 4					
City-Level Sub-Goals and Project Purpose	Performance Indicators	How it contributes to the achievement of National goals and sub- goals				
Sub-goal of City:						
Purpose of Area based developments:						
1						
2 Purpose of each Area based activity						
1.1						
1.2						
2.1						
Purpose of Pan-city Smart Solutions:						
2						
Purpose of each Pan-city Smart						
Solution activity:						
1.1						
2.1						

F. PAN-CITY PROPOSAL

A pan-city solution should benefit the entire city. It could focus on any sub-goal of your city and could improve aspects of the city's governance or infrastructure or public services for all citizens. Its impact should be felt across the city in a relatively short time-frame. Frugal innovations are encouraged, especially when they contribute to long-term sustainability and creation of livelihoods. Some of the salient features and solutions that may be applied as Pan-

City solutions are shown in the illustration given below. Note that the list of solutions indicated in the illustration is not exhaustive, and other solutions can be added as appropriate.



Please answer the following questions about your pan-city proposal:

- 23. Describe your idea for a pan-city proposal, mentioning the specific aims that the proposal seeks to address, the underlying factors that contribute to the problem that the proposal tries to address, and how the proposal addresses these underlying factors. Use data wherever it is available. {Max. 500 words}
- 24. How socially inclusive is your pan-city proposal? What makes it so? {Max. 150 words}
- 25. Has your city or any other city in the country previously attempted to apply the proposed smart solution to the identified gap? If so, when and what were the outcomes? {Max. 150 words}
- 26. Are you adopting or adapting a model or 'best practice' that has worked in another city? {If yes, describe in max. 150 words}
- 27. What are the key components of your pan-city proposal (eg. key components for a bus transport pan-city proposal could include mapping bus routes, a live information system for bus timings, design of bus stands, etc.)? {Max. 250 words}

28.In Table 5 below, please describe a plan for your pan-city proposal through the inputs (monetary, physical and human resources) that will be required, the activities that you will conduct, the outputs (immediate effects), outcomes (medium-term results), and impact (long-term results) of these activities. {Max. 50 words per cell}

Table 5					
Input	Activity	Output	Outcome	Impact	
			_		

- 29. What is the purpose of your pan-city proposal? How does this plan help achieve that purpose? And how does the purpose of your pan-city proposal relate to the sub-goals for the city? What are the assumptions that you are making in thinking that it will help achieve the sub-goals? (Max. 200 words)
- 30. Based on these assumptions, describe the three most significant factors for ensuring the success of the pan-city proposal and the mitigation strategy. {Max. 3 x 100 words each}
- 31. With reference to Table 5, tell us the following (Max. 100 words for each bullet):
 - Impact What changes will the Proposal bring about?
 - Sustainability How are the benefits likely to be maintained for an extended period?
 - Relevance How are the sub-goals consistent with citizen needs and priorities?
 - Effectiveness How will the Mission objectives be achieved? Will the outputs lead to any unintended outcomes?
 - Efficiency How will timely and adequate availability of inputs/resources be ensured?

G. AREA-BASED PROPOSAL

An area-based proposal will identify an area of the city that has been selected through desk research, analysis and citizen engagement as the appropriate site for either of three types of development: retrofitting (approx. 500 acres), redevelopment (approx. 50 acres) or Greenfield development (approx. 250 acres). This area will be developed into a 'smart' area, which incorporates all the Essential Elements prescribed in the Mission Guidelines and any additional features that are deemed to be necessary and appropriate.

Please answer the following questions about the proposed area-based development:

- 32. Summarize your idea for an area-based development. {Max. 500 words}
- 33. What do the residents of your city consider the most important aspects of the Smart City features described in Annexure 2 to be achieved in the selected area? How did you intend to achieve these? (Max 200 words)
- 34. How does your idea for the area-based proposal relate back to the sub-goals for your city? {Max. 150 words}
- 35. How socially inclusive is your area-based proposal? What makes it so? {Max. 150 words}
- 36. Describe, using mainly graphic means (maps, diagrams, pictures, etc.) the proposed area-based development, including the project boundaries, connectivity, significant relationships, etc. {Max. 2 nos. of A-3 size sheets}
- 37. What are the key components of your area-based development proposal (eg. buildings, landscaping, on-site infrastructure, water recycling, dual piping for water supply, etc.)? {Describe in max. 250 words}
- 38. Describe the 'smart' characteristics of the proposed development that relate to urban form (e.g. uncluttered public places, mixed-use, open spaces, walkability) and how these will be incorporated.
- 39.In Table 6, please describe a plan for your area-based proposal through the inputs (monetary, physical and human resources) that will be required, the activities that you will conduct, the outputs (immediate effects), outcomes (medium-term results), and impact (long-term results) of these activities.

Table 6					
Input	Activity	Output	Outcome	Impact	
<u>-</u>					

40. What is the purpose of your area-based development proposal? How does this plan help achieve that purpose? And how does this purpose relate to the sub-goals for the city? What are the assumptions that you are making in thinking that it will help achieve the sub-goals? {Max. 200 words}

- 41. Based on these assumptions, describe the three most significant factors for ensuring the success of the area-based development proposal and the mitigation strategy. {Max. 3 x 100 words each}
- 42. Referring to Table 6, tell us the following {Max 100 words for each bullet}:
 - Impact What changes will the Proposal bring about?
 - Sustainability How are the benefits likely to be maintained for an extended period?
 - Relevance How are the sub-goals consistent with citizen needs and priorities?
 - Effectiveness How will the Mission objectives be achieved? Will the outputs lead to any unintended outcomes?
 - Efficiency How will timely and adequate availability of inputs/resources be ensured?

H. IMPLEMENTATION FRAMEWORK

The implementation framework chosen by you will determine, to a significant extent, the chances of success of the city strategy and proposals.

The State Government has submitted an undertaking to make your city smart and has issued an order to constitute an Inter-departmental Task Force to coordinate efforts between all departments and agencies in your state/ULB. The CEO of the SPV is required to submit, every six months, a Score-Card and Status Update on the progress of work. Release of funds from the Mission Directorate will be contingent on progress in implementation. The formation of the SPV as per the Smart City Mission Guidelines is a crucial step in the implementation process.

- 43. Describe the critical milestones, realistic timelines and sequencing of efforts and events that you are projecting as the short and long term scenarios for your smart city? {Max. 250 words}
- 44. Describe the SPV you propose to create in your city, with details of its composition and structure, leadership and governance, and holding pattern. {Max. 500 words}
- 45. List out the government (Central, state/ULB) departments, parastatal organizations and public agencies who will be involved with the time-bound execution of each of the project components you have identified in Questions 27 and 37. Indicate the designation and

- name of the officer assigned by each respective department/agency to the specific component that needs to be executed.
- 46. List all the private companies/corporations/organizations that need to be engaged with the Execution and Operations & Maintenance of the various projects envisaged in this SCP, along with their roles and responsibilities. Mention whether they will be involved as vendors, concessionaires, JV partners, etc. Describe the basic TORs for each relationship. {Max. 100 words for each entity}
- 47. Describe the institutional linkages and civil society partnerships that may be required for the implementation of the pan-city and area-based proposals. {Max. 150 words}
- 48. Describe the implementation framework in Table 7 below:

	TABLE 7							
Purpose	Performance		Mission	For FY: (do upto purpose achieved)				
and Activity	indicator		target	For Half	rear 1	For Half \	rear 2	
				Progress to be made on baseline	Funds to be utilized	Progress to be made on baseline	Funds to be utilized	
Purpose 1								
Activity 1								
Activity 2								
Purpose 2			<u> </u>					
Activity 1					<u> </u>			
Activity 2				ļ			_	
Etc.			<u> </u>	<u> </u>	<u> </u>			

49. Give the monitoring plan in Table 8 below:

· · ·	TABLE 8							
Element	Indicators (including	Indicators Means of verification					rmation	
	targets)	Data source	Frequency and cost of collection	Responsibility of collection	Collection method	Reporting	Presentation	
Sub-goal							<u> </u>	
Purpose								
Outputs								
Activities								
Inputs		_						

I. FINANCING PLAN

The development of bankable proposals will be a key success factor in the Smart City Mission. In order to arrange appropriate amounts and types of funding and financing for your SCP, you must keep financial considerations always in mind while preparing your overall strategy and the pan-city and area-based proposals. It is anticipated that innovative means of funding and financing the projects will be necessary. For this purpose, you must evaluate the capacity of the ULB and the SPV to undertake self-funded development projects, the availability of funds from other government schemes that will converge in your SCP, and the finance that can be raised from the financial market.

Please answer the following questions:

- 50. What is the estimated budget for your pan-city proposal and how will it be financed? If you plan to seek loans or issue bonds, what revenue sources will be used to pay back the loans? {Max. 250 words}
- 51. What is your estimate budget for area-based development and how will it be financed? If you plan to take out loans and issue bonds, what revenue sources will be used to pay back loans? {Max. 250 words}
- 52. What is your plan for covering the Operations & Maintenance costs for each of the project components identified in Questions 26 and 34? {Max. 250 words}
- 53. What are your financial assumptions? Do you have any alternatives or fall-back plans if the financial assumptions do not hold? {Max. 250 words}

J. BENEFITS & IMPACTS

- 54. What will be the measurable impact of your **pan-city proposal**? Please keep in view the City-level Self Assessment and the information given in Table 4. Describe with respect to the five types below, as relevant to your city and proposals {Max. 50 words each}:
 - a. Governance Impact (eg. government response time to citizen complaints halved)
 - b. Spatial Impact (eg. built form changed to create more public space)

- c. Economic Impact (eg. 10,000 new jobs created)
- d. Social Impact (eg. better infrastructure provided for 1000 informal vendors)
- e. Environmental Impact (eg. water quality improved by reducing pollutants by half)
- 55. How will you measure the success of your pan-city and area-based proposals and when will the public be able to 'see' or 'feel' benefits? {Max. 150 words}
 - a. Immediately, within Year 1
 - b. In 3-5 years
- 56. What will be the measurable impact of the area-based development proposal, both on the area and the wider city? Please keep in view the City-level Self Assessment and the information given in Table 5. Describe with respect to the five types below, as relevant to your city and proposals {Max. 50 words each}:
 - a. Governance Impact (eg. government response time to citizen complaints halved)
 - b. Spatial Impact (eg. built form changed to create more public space)
 - c. Economic Impact (eg. 10,000 new jobs created)
 - d. Social Impact (eg. better infrastructure provided for 1000 informal vendors)
 - e. Environmental Impact (eg. water quality improved by reducing pollutants by half)

K. PROCESS AND TEAMWORK

It would be helpful to know about how you prepared the proposal and who was involved in this process.

- 57.Create an organogram that shows the relationships between all those who helped you create this proposal and the role they will play in the future, such as:
 - MPs, MLAs, MLCs.
 - Mayors, Councilors, other elected representatives.
 - Divisional Commissioner
 - Collector
 - Municipal Commissioner
 - Chief Executive of the Urban Development Authority/Parastatal
 - Consultant (Select from empanelled list)
 - Handholding Organisation (Select from following list: World Bank, ADB, JICA, USTDA, AFD, KfW, DFID, UN Habitat, UNIDO, Other)
 - Vendors, PPP Partners, Financiers

• Others, (eg. community representatives) as appropriate to your city
When creating the organogram, kindly keep in mind the responses you have given to
Questions 41, 42 and 43.

Smart City Features

	Feature	Definition
1	Citizen participation	A smart city constantly shapes and changes course of its strategies incorporating views of its citizens to bring maximum benefit for all. (Guideline 3.1.6)
2	Identity and culture	A Smart City has a unique identity, which distinguishes it from all other cities, based on some key aspect: its location or climate; its leading industry, its cultural heritage, its local culture or cuisine, or other factors. This identity allows an easy answer to the question "Why in this city and not somewhere else?" A Smart City celebrates and promotes its unique identity and culture. (Guideline 3.1.7)
3	Economy and employment	A smart city has a robust and resilient economic base and growth strategy that creates large-scale employment and increases opportunities for the majority of its citizens. (Guideline 2.6 & 3.1.7 & 6.2)
4	Health	A Smart City provides access to healthcare for all its citizens. (Guideline 2.5.10)
5	Education	A Smart City offers schooling and educational opportunities for all children in the city (Guideline 2.5.10)
6	Mixed use	A Smart City has different kinds of land uses in the same places; such as offices, housing, and shops, clustered together. (Guidelines 3.1.2 and 3.1.2)
7	Compactness	A Smart City encourages development to be compact and dense, where buildings are ideally within a 10-minute walk of public transportation and are located close together to form concentrated neighborhoods and centers of activity around commerce and services. (Guidelines 2.3 and 5.2)
8	Open spaces	A Smart City has sufficient and usable public open spaces, many of which are green, that promote exercise and outdoor recreation for all age groups. Public open spaces of a range of sizes are dispersed throughout the City so all citizens can have access. (Guidelines 3.1.4 & 6.2)
9	Housing and inclusiveness	A Smart City has sufficient housing for all income groups and promotes integration among social groups. (Guidelines 3.1.2)
10	Transportation & Mobility	A Smart City does not require an automobile to get around; distances are short, buildings are accessible from the sidewalk, and transit options are plentiful and attractive to people of all income levels. (Guidelines 3.1.5 & 6.2)
111	Walkable	A Smart City's roads are designed equally for pedestrians, cyclists and vehicles; and road safety and sidewalks are paramount to street design. Traffic signals are sufficient and traffic rules are enforced. Shops, restaurants, building entrances and trees line the sidewalk to encourage walking and there is ample lighting so the pedestrian feels safe day and night. (Guidelines 3.1.3 & 6.2)
12	IT connectivity	A Smart City has a robust internet network allowing high-speed connections to all offices and dwellings as desired. (Guideline 6.2)
13	Intelligent government services	A Smart City enables easy interaction (including through online and telephone services) with its citizens, eliminating delays and frustrations in interactions with government. (Guidelines 2.4.7 & 3.1.6 & 5.1.4 & 6.2)
14	Energy supply	A Smart City has reliable, 24/7 electricity supply with no delays in requested hookups. (Guideline 2.4)

	Feature	Definition
15	Energy source	A Smart City has at least 10% of its electricity generated by renewables. (Guideline 6.2)
16	Water supply	A Smart City has a reliable, 24/7 supply of water that meets national and global health standards. (Guidelines 2.4 & 6.2)
17	Waste water management	A Smart City has advanced water management programs, including smart meters, rain water harvesting, and green infrastructure to manage storm water runoff. (Guideline 6.2)
18	Water quality	A Smart City treats all of its sewage to prevent the polluting of water bodies and aquifers. (Guideline 2.4)
19	Air quality	A Smart City has air quality that always meets international safety standards. (Guideline 2.4.8)
20	Energy efficiency	A Smart City promotes state-of-the-art energy efficiency practices in buildings, street lights, and transit systems. (Guideline 6.2)
21	Underground electric wiring	A Smart City has an underground electric wiring system to reduce blackouts due to storms and eliminate unsightliness. (Guideline 6.2)
22	Sanitation	A Smart City has no open defecation, and a full supply of toilets based on the population. (Guidelines 2.4.3 & 6.2)
23	Waste management	A Smart City has a waste management system that removes household and commercial garbage, and disposes of it in an environmentally and economically sound manner. (Guidelines 2.4.3 & 6.2)
24	Safety	A Smart City has high levels of public safety, especially focused on women, children and the elderly; men and women of all ages feel safe on the streets at all hours. (Guideline 6.2)

ANNEXURE 2

Self-Assessment Form

				F	G	Н	1	,	K
s Feature	c Definition	Scenario 1 (BASE)	Scenario 2	Scenario 3	Scenario 4 (ADVANCED)	Self-assessment of the city (for Pan- City Solution) or eras (for Area- based development), with regard to each feature	Basis for assessment and/or quantitative indicator (Optional - only If data mists)	Projection of 'where the city wants to be' with regard to the feature/indicator	repat/initiative that would move the city/area from its current status to Advanced status (Scenario 4)
Cleizen perticipation	A americ city constantly shapes and changes course of its strategies incorporating views of its citizen to thing maximum benefit for all. (Suideline 3.1.4)	pursus without consulting chiens.	City undertakes citizen participation with some select stakeholders. The findings are compiled and incorporated in some projects or programs. Yery few major decisions are shared with critizens until final projects are unveilled.	local area level with most staveholders and in most areas. The fludings are compiled and incorporated in projects or programs.	City constantly conducts citizen engagement with people at each Ward level to incorporate their views, and these shape priorities and development projects in the city. Multiple means of communication and getting lepdance such, both face-to-face and online are utilised. The effectiveness of city governance and survice delivery is constantly enhanced on the basis of feedback from citizens.				
Identify and culture	industry, its cultural heritage, its local culture or culting, or other factors. This identity allows are easy session to the quastion "orby in this city and not sensewhere size?" A Smart City coldinates and promotes its unique identity and culture. (Guldeine	city. Built, natural and cultural heritage is not preserved and willised or enhanced through physical, management and policy structures.	utilised to serve extent but limited resources exist to meanage and manician the immediate surroundings of the heritage monuments. New buildinds and areas are created without much thought to how they reflect the identity and culture of his city.	and utilised and their surroundings are well- maintained. Natice spaces, public buildings and amenities reflect the cultural identity of the city-	Bullt, natural and istungible herwings are presented and utilized as anchors of the city. Historical and cultural resources are enablenced through various mediums of expression. Public spaces, open spaces, amenities and public buildings effect local felority and are widely used by the public through festivals, events and activities.				
Economy and simpleyment	base and growth strategy that creates large-scale employment and increases opportunities for the	a high number of jobs in the informal sector without sufficient facilities.	many sections of the population. The city attemps to integrate informal economic activities with formal parts of the city and its economy.	There are adequate job opportunities for all sections of society. But skill availability among residents can sometimes be a challenge.	There are adequate opportunities for jobs for all sections of income groups and stall sevels. Job-oriented skill training supported by the city and by industry. Economic activities are suited to and build on locational and other advantages of the city.				
Education	A Smart City offers schooling and educational approximates for all children in the city (Goldeline 2.5.10)	The chygmovides very kented educational facilities for its residents. There are some schools but very limited compared to the demand. Many schools are in poor condition.	within easily reachable distance of 15 missates walking for most residential areas of the city. The city also provides some secondary education facilities.	City provides adequate primary and secondary education facilities sethine easily exclusible distance for most residential awas of the div. Education facilities are requisity sesses of through - distabless of schools including number of students, attendance, seacher - student ratio, scrities available and other factors.	City provides adequate ann high-quality education facilities within asalty recitable starace of 10 minutes walking for all the residential areas of the city and provides multiple options of connecting with specialised treching and multi-media enabled education. Education facilities are regularly assessed through database of schools including number of students, attendance, teacher-square ratio, facilities available and opter factors.				
5 Health	A Smart City provides access to healthcare for all its citizens. (Guideline 2.5.10)	Healthcare is difficult for citizens to access - demand for healthcare often exceeds hospitals' ability to meet citizen needs.	The city provides some access to health lare for its residents but healthcare facilities are overhundered and far from many residents. Access to preventive health care is only easily available for some residents.	City provides adequate health facilities within easily reschable distance for all the residential areas and job canters of the city. It has an emargency response system that connects with ambulance services.	systams for elderly and vulnerable distens which are directly connected to hospitals to prevent emergency health risks and to acquire specialised health advice with maximum convenience. The city is able to foresee likely potential dissess and develop response systems and preventive cyre.				
6 Mitsed use	A Smart City has different kinds of fand uses in the same places; such as affices, housing, and shops, clustered together. (Guidelines \$.1.2 and 3.1.2)	The city has mostly separated uses and areas are focused either on residential, commercial, or industrial, with this co-existence of uses. The average resident cannot walk to the closest market or stops near his or her home. For almost everyone, going to work or going shopping for basic needs, requires a journey by automobile or bus of more than 15 minutes. Land use regulations prevent putting commercial or office locations in residential neighborhoods, and vice versa.	In some parts of the city, there is a minute of land uses that would allow someone to live, work, and stop in close prodenty. However, in most areas, there are only small retail stores with basic supplies may be supplied that the store of the store that the supplied transportation to access a shop for food and basic daily needs. Land use rules support segretating flouring, retail, and office uses, but exceptions are made when requested.	Most parts of the city have housing, retail, and office buildings in close proximity. Some neigh borhoods have light industrial uses within them (e.g., wito repair, craft production). Land use rures allow for mixed uses.	Every part of the city has a min of uses. Everyone lives within a 15-mileut ray of office buildings, markets and shops, and even some industrial uses. Land use rules require or encourage developers to incorporate a mixture of uses in their projects.				
7 Compact	A Smart City encourages development to be competed and dense, where buildings are located dose to name another and are ideally within a 50-minute well of public transportation, forming concentrated neighborhoods. (Guidelines 2.3 and 5.2)	The city is expanding rapidly at its periphery into undeveloped land, rural or natural areas, or along	The city has one or two high density areas - such as the city center, or historic areas, where buildings are concentrated together and where people can wall easily from buildings to building and feel as though they are in center of activity. Most of the city consists of areas where buildings are spread out and difficult to wall between, sometimes with low-density per hoctare. Regalexons tend to favor buildings that are separated from one another, with lots of parting at the base and set-back from the streets. The city likely has some pociats of under-utilized land in the center later format developments at the periphery tend to be large-scale residential developments, often enciosed with a gate and criented to the automobile.	in the inner-city, expecially those located close to	The City in highly compact and dense, making the most of land within the city. Buildings are clustered together forming walkable and mivtling activity centers and neighborhoods. Regulations encourage or incentrivize medium control of the city center. Buildings are oriented to the street and parting is bept to a minimum, located below ground or at the back of buildings. Public transport and walking connects residences to most jobs and amenities. Residential density is at an optimal with afforgable bousing available in most areas.				
8 Public open spaces	A Smort City has sufficient and usable public open speces, many of which are green, that premate swertes and outdoor recreation for ell age groups. Public open spaces of a range of sizes are dispersed throughout the City so all titisees can have access. [Quidelines 3.1.4 & 6.2]	The city has very few usable public open spaces and very few usable green spaces. Available recreational spaces are located far every and are dispersed at long distances around the city. The few available public open spaces offer a limited variety of experiences for all sections of population and age groups such as places for sport, places for rest, and places for play.	neighborhoods, but are not available in all the areas of the city or are located far away from residential areas. Many of the open spaces have access	Most areas of the city have some sort of public open space. There is some vertexy in the types of public spaces in the city. However, public spaces are sometimes not within easy reach or access of more vulnerable populations and are more restricted in poorer neighbourhoods.	Public open spaces are well dispersed throughout the city. Every residential area and work space has access to open space within 10 minutes waiting distance. Open spaces are of various types - natural, green, plezas, park, or recreation series - which serve various sections of people. Public spaces tend to truly reflect the natural and outrural identity of the city.				

9 Housing and	A Smart City has sufficient housing for all income	Housing is very limited and highly segregated across	Housing is available at most income levels but is		A wide range of a housing is available at all cost levels.			T
inclusiveness	groups and promotes integration among social	income levels. Population growth for exceeds the	highly sugregated across income levels. Population	segregated across income levels. The growth of	The supply of housing is growing at pace with			
	groups. (Guidelines 3.1.2)	creation of new housing. The poor live in informal settlements with limited to no access to basic	growth slightly exceeds the creation of new housing. The wealthy and the middle class have housing that	supply of housing almost meets the rate of population growth, increasingly, lower and micrile-income	population. Afforable, moderate, and luvery housing are found clustered together in many areas of the city			
ì		services, and are concentrated in a few areas. The	meets their needs at costs appropriate to their	people can find housing in areas that are conveniently	are visited contaction and product at the party of the party			
1	1	wealthy live in suparate enclaves. Those in the middle		located.				1
		have few, if any options.		Naturals of streets are fairly correlets. Public	Street network is complete and follows a clear		 	
1 Transport		Personal automobile centric city with very few modal options. Long trip lengths for daily commute to work	The street network system is elaborate but public transport choices are restricted. Public transport can	Natural of streets are fairly complete. Public transport covers most areas of the city. However last	Street network is complete and follows a clear structure. Public transportation network covers the			
이	around; distances are short, buildings are accessible from the sidewalt, and transit options are plentiful	and aducation. Accessing various areas by walking or	be too expensive or unafforedable for the poor.	mile connectivity remains incomplete and effects	entire city and intensity of connection relates with the		ļ	
: [and attractive to people of all income levels.	eyeling is difficult. Women and vulnerable sections	Pedestrian infrastructure is only available in select	transport options. Foot paths are accessible in most	demand. Plenty of options of public transport are			
1 i	(Guidelines 3.1.5 & 6.2)	find it very difficult to move independently in the city.		areas, whereas concerns of safe crossings and	available and affordable for all sections of the society.			
	1	There is limited public transport. Vehicles cause high air and noise pollution levels in the city. Vehicles	truffic congestion through the creation of more roads.	security throughout the day remain. Purking zones are demarcated but absence of pricing increases over	There is multi-modal integration at all mass transit staions and organized-oriced on street and off street		i :	
		dominate public spaces and affect their effective		utilization of parking lots.	parking. Walking and cycling is prevalent.			
		functioning.		, -				
1 Watkable	A Smort City's rouds are designed equally for	The city is designed mainly for the automobile. Daily	Older areas of the city see a mix of pedestrians,	The city has a good network of pavements and bike	The city is highly walkeble. Pavements exist on every			
1	pedestrians, cyclists and vehicles; and road safety	the without a car requires long but rides. Walking is	cyclists, and vehicles but newer areas are locused mainly on the automobile. In the new areas, there	lanes. Buildings in most areas of the city are easily accessible from the pavement. However, traffic signals	street and are maintained. Trees line many sidewalks to provide shade for pedestrians. Buildings in most			
	and sidewalks are paramount to street design. Traffic signals are sufficient and traffic rules are	difficult and often dangerous; there are few pavements, existing pavements need repair and lack	are few payements and main entrances to new	are sometimes disobeyed and it can feel difficult to	areas of the city are easily accessible from the			
	enforced. Shops, restaurants, building entrances	trees to provide shade for pedestrians, and marked	buildings are not accesible from the front of the	cross the street.	sidewalk. Traffic signals control the flow of			
	and trues line the sidewalk to encourage walking	pedestrian crossings are rare. New buildings have	street. large driveways or parking lots often		automobiles and are enforced. A network of bike lanes			
l I	and there is ample lighting so the pedestrion feels	their main entrances set-back from the st wet, sometimes with large driveways or parking lots	separating them from the street, and sometimes are are enclosed by gates. In these areas, traffic signals	1	exists to promote cycling as a means of transport. Traffic rules are followed and enforced with great			
	safe day and night. (Guidelines 3.1.3 & 6.2)	separating them from the street, and sometimes are	are disobeyed.		seriousness.			
		are enclosed by gates. Traffic signals are citten						1
		disobeyed			The city afters free will services to provide opportunity		ļ	 ł
1 IT connectivity	A Smart City has a robust internet network allowing	City has no major plans to bring increased high speed	The city has made plans to provide high speed internet connectivity through the existing framework.	The city makes has high speed internet connectivity available in most parts of the city.	The city afters free will services to provide opportunity for all the citizens to connect with high speed internet	'	1	
2	high-speed connections to all offices and dwellings as desired. (Guideline 5.2)	internet connectivity to the public.	NAME AND ADDRESS OF THE PARTY O		across the city.			<u> </u>
1 ICT-enabled	A Senant City enables easy Interaction (including	Essential Government services are not linked with	Some of the public services are provided online and	Most of the services are provided online and offline.	All major services are provided through online and			
3 government	through online and telephone services) with its	online platforms. Paper intensive interactions with	infrastructure for total digitalization is not in place.	Data transparency helps monitoring. Systems and processes to better coordinate between various	offling platforms. Ethrens and officials can access information on accounting and monitor status of			1
services	citizens, eliminating delays and frustrations in interactions with government. (Guidelines 2.4.7 &	the local Government continues. Recieving services and response to citizen complaints take a long time.	Service delays occur regularly in some sectors. Responses to citizen inquiries or complaints are often		projects and programs through data available on online			1
l 1	3.1.6 & 5.1.4 & 6.3)	There is limited availability of data to monitor service			system. Robust data infratsructure system shares			
1		delivery.			Information and enhances internal governmental			1
 	A Smart City has reliable, 24/7 electricity supply with	When is not been its at about drifts county with	Electricity supply and loads are managed as per	Electricity a available in most parts of the city for	coordination. Electricity is available 24 x 7 in all parts of the city with			
1 Energy supply	A Smart City has reliable, 24/7 electricity supply with no delays in requested hookups. (Guildeline 2.4)	regular power shedding. Many residents have to plan	demand and priority for various functions with clear	most hours of the day but some areas are not so well-	smart matering linked to online platforms for			
[1]		their days around when power is available.	scheduling, with electricity being available in many	served. Smart metering exists in some parts of the city but not all.	monitoring and transparency.			
H	A Smart City has at least 10% of its electricity	The city does not have any renewable sources of	areas for most hours of the day. The city is preparing plans for ensuring that it gets	Some energy consumed is the city is produced	As least 10% of the energy used in the city is generated			
1 Energy source	generated by renewables. (Guideline 6.2)	energy and there is no commitment to promote this	more energy from renewable sources and is in the	through renewable sources. There are long term	through renewable sources. The city is undertaking			1
[1	, , , , , , , , , , , , , , , , , , , ,	for the forseeable future.	process of making commitments in this regard.	targets for higher renewable energy capacities and	tong-term strategic projects to tap renewable sources			
				the city is making plans to achieve these.	of energy in its region/beyond to increase the percentage of renewable energy sources.			
			i		percentage of returning arriving sources.			
1 Water supply		I						
I T I secure and design		The city has a poor water supply system with limited	The city has intermittent water supply and		The city has 24 x 7 created water supply which follows			 +
6	meets national and global health standards.	water availability. There are no clear targets to	availability. However it is setting targets and	quality of water does not meet international health	national and global standards and also available in			
6		water availability. There are no clear targets to achieve higher quality and optimal quantity						
6	meets national and global health standards. (Guidelines 3.4 & 6.2)	water availability. There are no clear targets to achieve higher quality and optimal quantity standards. Unaccounted water loss is above 40%	availability. However it is setting targets and processes in place to try to improve its water supply. Unaccounted water loss is less than 30%.	quality of water does not meet international health standards. Unaccounted water loss is less then 20%.	national and global standards and also available in suffecient quantity and affordable across all sections of the society. Unaccounted loss less than 15%.			
6 Water managemen	meets national and global health standards. (Guidelines 2.4 & 6.2) Int. A Smart City has advanced water management.	water availability. There are no clear targets to achieve higher quality and optimal quantity standards. Unaccounted water loss is above 40%. The city does not measure all its supply. It does not	availability. However it is setting targets and processes in place to lay to improve its water supply. Unaccounted water loss is less than 30%. The city has meters for all its water supply but lacks	quality of water does not meet international health standards. Unaccounted water loss is less than 20%. The has meters for all its water supply with some	national and global standards and also available in suffecient quantity and affordable across all sections of the society. Unaccounted loss less than 15%. The city has meters for all its water supply. It includes			
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1 Water management 7 1 Water management 8 management 1 Air quality 9 2 Energy efficiency 0	meets national and global health shandards. (Gudellines 2.A. & 6.Z) Int (A Smart City has advanced weter management programs, including smart metars, rain water horsesting, and green infrestructures to searage stormwater runoff. (Quidelline 6.Z) A Smart City treats all of its sewage to prevent the polluting of water hoddes and aquitiers. (Quidelline 2.A) A Smart City has air quality that advances means international safety standards. (Guidelline 2.A.S) A Smart City povernment uses state-of-the-art energy afficiency practices in buildings, street lights and transit systems. (Guideline 6.2) A Smart City journment uses state-of-the-art energy afficiency practices in buildings, street lights and transit systems. (Guideline 6.2)	water availability. There are no clear targets to achieve higher quality and optimist quantity standards. Unaccounted water loss is above 40%. The city does not measurer all its supply. It does not recycle waste water to meet its requirements and rail water harvesting is not prevalent. Flooding often occurs due to storm water run-off. The city is unable to treat all its sewage. Many local sever lines open on to water hooles and open ground and pollute the environment. City does not have plans, policies or programs to improve the air quality. Systems to monitor air quality are absent. City has no programs or controls or incentive mechanisms to promote or support energy effeciency in buildings.	availability, however it is setting targets and processes in place to try to improve its water supply. Unaccounted water logs is less than 30%. The city has meters for all its water supply but lacks mechanisms to monitor. Water wastage is very high Sorne, but not much, rainwater harvesting exists. Most wasta water is collected and treated before to before disposal. However the treated water does not meet attendands and is not excycled for secondary uses. City has programs and projects to monitor air ouslity and spatialising the data to ascertain reasons for degrees of pollution in the air. A lew stretagies to decrease air pollution in the air. A lew stretagies to decrease air pollution have been implemented. The city promotes energy efficiency and some new buildings install energy efficiency yaters that track and monitor energy use and savings.	quality of water does not meet international health standards. Unaccounted water loss is less than 20%. The has meters for all its water supply with some inner mechanisms to monitor. Railmatter harvesting systems are installed and stored in water bodies. However, recycling of weste water and reusage of storm water is collected and stored in water bodies. However, recycling of weste water and reusage of storm water is limited. All the waste water is collected and treated before before disposal. It is also treated to a high standard and some is recycled. City has programs and projects to monitor air quality and spatialising the data to escential reasons for degrees of collution in the air. Pollution levels are exceptable. Most new public buildings install energy effeciency systems and some older buildings are also introflitted to be more energy efficient. Local government conducts counselling and outr each with developer, buildings are also retroflitted to the more energy efficient. Local government conducts counselling and outr each with developer, buildings are also retroflitted to the more energy efficients to adopt energy efficiency strategies.	national and global standards and also available in suffecient quantity and affordable scross all sections of the society. Meaccourted loss lets than 15%. The city has meters for all tits water supply. It includes smart mechanisms to monitor remotely. Relevater smarts mechanisms to monitor remotely. Relevater smarts present are installed and utilized through the city and storm water is collected and stored in suater bodies and treated for usage. Recycled water water is supplied for secondary uses. The city has sero waste water because all the waste water is collected, bested and recycled. It meets standards an reduces the need for fireth water. The city has clean air by international standards. Use Air quality are mapped. All the adstring old and new public buildings employ energy effections of principles in development and operation and apply for energy rating by national and international forums. Manny non-public buildings are also energy efficient because the government.			
1 Water management 2 Water water 8 management 1 Air quality 9 2 Energy efficiency 0 2 Underground 1 alectric wirling	meets national and global health standards. (Gudellines 2.A. B. 6.2) Int. A Smart City has advanced water management programs, including smart metars, rain water honcesting, and green infrestructure to manage stormwater runoff. (Guldelline 6.2) A Smart City treats all of its sewage to prevent the polluting of water buddes and aquifers. (Guldelline 2.A.) A Smart City has air quelity that obuges measts international safety standards. (Guldelline 2.A.5) A Smart City pass air quelity that obuges measts international safety standards. (Guldelline 2.A.5) A Smart City government uses state-of-the-act energy efficiency practices in buildings, street lights and transit systems. (Guldelline 6.2)	water availability. There are no clear targets to achieve higher quality and optimity quantity standards. Unaccounted water loss is above 40%. The city does not measure all its supply. It does not recycle waste water to meet its requirements and rail water harvesting is not prevalent. Flooding often occurs due to storm water run-off. The city is unable to treat all its sewage. Many local seems fines open on to water hodies and open ground and pollute the environment. City does not have plans, policies or programs to improve the air quality. Systems to monitor air quality are absent. City has no programs or controls or incentive mechanisms to promote or support energy effeciency in buildings.	availability. However it is setting targets and processes in holes to tey to improve its water supply. Unaccounted water loss is less than 30%. The city has meters for all its water supply but lacks mechanisms to monitor. Water wasteage is very high Sorne, but not much, reliminating the set of t	quality of water does not meet international health standards. Uneccounted water loss is less then 20%. The has meters for all its water supply with some inner mechanisms to monitor. Rainwater harvesting systems are installed and stored in water bodies. However, recycling of water water and reusage of storm water is limited and stored in water bodies. However, recycling of water water and reusage of storm water is limited and some is recycled. All the water water is collected and treated before before disposal. It is also treated to a high standard and some is recycled. City has programs and projects to monitor air quality and spatishing the data to ascertain reasons for degrees of pollution in the air. Pollution levels are exceptable. Most new public buildings install energy effectency systems and some officer buildings are also retrofitted to be more energy effected. Local government conducts counselling and outr each with developer, buildinesses and residents to adopt energy effectency stringing.	national and global standards and also available in sufficient quartie and effordable across all sections of the society. Unaccounted loss less than 15%. The city has meters for all its water supply. It includes amer mechanisms to monitor remotely, harvester shrusting systems are installed and utilised through the city and storm water is collected and stored in water because all the supplied for secondary tises. The city has zero water mater because all the waste water is collected, the water water is supplied for secondary tises. The city has zero water water because all the waste water is collected, the water because all the waster water is supplied for secondary tises. The city has zero water because all the waster standards an reduces the need for firsth water. The city has clean air by international standards. Live Air quality monitoring cover the entire city and date of air quality are mapped. All the actiting old and new public buildings employ energy effectionly principles in development and operation and apply for energy rating by national and international focus. Many non-public buildings are also energy efficient because the government promotes energy efficient because the government promotes energy efficient because the government or comotes energy efficiently through incorrices and regulations. Sanitation facilities are available to 800% of the city's			
1 Water management 2 Water water 8 management 1 Air quality 9 Cherry efficiency C Underground	meets national and global health shandards. (Gudallines 2.A. B. 6.2) Int A Smart City has advanced water management programs, including smart meets, rain water horsesting, and green infrestructure to markage stormwater runoff. (Guldeline 6.2) A Smart City treats all off its sewage to prevent the poliuting of water hoddes and aquifers. (Guldeline 2.A.) A Smart City has air quality that always meets international safety standards. (Guldeline 2.A.s) A Smart City has air quality that always meets international safety standards. (Guldeline 2.A.s) A Smart City powerment uses state-of-the-art energy afficiency practices in buildings, street lights and smalt pystems. (Guldeline 6.2) A Smart City has an underground electric wiring system to reduce blockquist due to sterves and elements uniquetimes.	water availability. There are no clear targets to achieve higher quality and optimity quantity standards. Unaccounted water loss is above 40%. The city does not measure all its supply. It does not recycle waste water to meet its requirements and rail water harvesting is not prevalent. Flooding often occurs due to storm water run-off. The city is unable to treat all its sewage. Many local seems fines open on to water hodies and open ground and pollute the environment. City does not have plans, policies or programs to improve the air quality. Systems to monitor air quality are absent. City has no programs or controls or incentive mechanisms to promote or support energy effeciency in buildings.	availability. However it is setting targets and processes in holes to tey to improve its water supply. Unaccounted water loss is less than 30%. The city has meters for all its water supply but lacks mechanisms to monitor. Water wasteage is very high Sorne, but not much, reliminating the set of t	quality of water does not meet international health standards. Unaccounted water loss is less then 20%. The has meters for all its water supply with some inner mechanisms to monker. Rainwater harvesting systems are installed and stored in water bodies. However, recycling of weste water and reusage of store water is limited and stored in water bodies. However, recycling of weste water and reusage of store water is limited water and reusage of store water is limited and some is recycled. All the water water is collected and treated before before disposal, it is also treated to a high standard and some is recycled. City has programs and projects to monitor air quality and spatialising the data to secretain reasons for degrees of pollution in the air. Pollution levels are exceptable. Most new public buildings install energy effeciency systems and some older buildings are also retrofitted to be more energy efficient. Local government conducts counselling and our each with developer, buildinesses and residents to adopt energy effeciency strategies.	national and global standards and also available in suffection quantity and affordable across all sections of the society. Unaccounted loss less than 15%. The city has meters for all its water supply. It includes smart mechanisms to monitor remotely. Nativester hemosition remotely harvester as the same of the same o			

	Waste manager	A Separt City has a waste management protest that	Waste collection systems do not pick up waste on a	Waste generated is usually collected but not		The city reduces land fill caused by waste so that it is		1		
1:		removes household and commercial garbage, and	frequent basis and waste often enters into water	segregated. Recycling is attempted by cifficult to	in an environmentally sound manner.	minimal. All the solid waste generated is seggregated	l	i		
3				implement.		at source and sent for recycling. Organic waste is sent			l I	
- 1 - 3			OUVEZ.			for composting to be used for gardening in the city.	ı	l	1	
- 1 '		economically sound manner. (Guidelines 2.4.5 & 6.2)						<u> </u>		
- 1	1					Energy creation through waste is considered.	1	1	l .	
- 1						i	1		1	
L.,						The state of the s				
13	Safety and security	A Separt City has bigh lovely of public safety,	The city has low levels of public safety - most groups		The city has high levels of public safety - all citizens					
- 11			of residents feel insecure during most parts of the day	more vidnerable groups feel insecure during some	including women, children and the elderly feel secure	residents feel safe in all parts of the city during all			•	
14					in most parts of the city during most time in the day.		1	i		
- 1		elderly; men and women of all ages feel safe on the	in many parts of the city.	points of the day and in some parts of the city	in most parts or one city ouring most time in the day.	HOUS OF LIFE WAY.	l	1	l l	
- 1	l l	structs at all hours, (Guidaline 6.2)				<u> </u>	<u></u>	<u> </u>	L	

	Level of Development of city overall		(OPTIONAL) Any additional information, inleuding any quantitative information
Citizen participation		#N/A	
Identity and culture		#N/A	
Economy and employment		#N/A	

	Level of Development of city overall		(OPTIONAL) Any additional information, inlcuding any quantitative information
Education		#N/A	
Health		#N/A	
Mixed use		#N/A	

	Level of Development of city overall		(OPTIONAL) Any additional information, inleuding any quantitative information
Compact		#N/A	
Public open spaces		#N/A	
Housing and inclusiveness		#N/A	

	Level of Development of city overall		(OPTIONAL) Any additional information, inlcuding any quantitative information
Transport		#N/A	
Walkable		#N/A	
IT connectivity		#N/A	

	Level of Development of city overall	Level of Development of city overall	(OPTIONAL) Any additional information, inlcuding any quantitative information
Intelligent government services		#N/A	
Energy supply		#N/A	
Energy source		#N/A	

	Level of Development of city overall		(OPTIONAL) Any additional information, inleuding any quantitative information
Water supply		#N/A	
Water management		#N/A	
Waste water management		#N/A	

	Level of Development of city overall		(OPTIONAL) Any additional information, inlcuding any quantitative information
Air quality		#N/A	
Energy efficiency		#N/A	
Underground electric wiring		#N/A	

	Level of Development of city overall		(OPTIONAL) Any additional information, infouding any quantitative information
Sanitation		#N/A	
Waste management		#N/A	
Safety and security		#N/A	·