MYSURU

URBAN SUSTAINABILITY INDICATORS REPORT

SUSTAINABLE CITIES INTEGRATED APPROACH PILOT (SCIAP)

Prepared By:	**Submitted to:**	**Project Donors:**

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This report has been prepared under the Sustainable Cities Integrated Approach Pilot (SCIAP) project funded by the Global Environment Facility (GEF-6) through UNIDO. It documents the findings from the application of the Urban Sustainability Assessment Framework (USAF), which was developed under SCIAP for five pilot cities – Bhopal, Guntur, Jaipur, Mysore and Vijayawada. The report is produced using data provided by the state and municipal authorities of the four participating states and additional geospatial data collected from the National Platform for Sustainable Cities, European Space Agency. While UN-Habitat checks data to the fullest extent possible, the responsibility for the accuracy of the data lies with the original providers of the data. Information contained in this Report is provided without warranty of any kind, either express or implied, including, without limitation, warranties of merchantability, fitness for a particular purpose and non-infringement. UN-Habitat specifically does not make any warranties or representations as to the accuracy or completeness of any such data. Under no circumstances shall UN-Habitat be liable for any loss, damage, liability or expense incurred or suffered that is claimed to have resulted from the use of this Report, including, without limitation, any fault, error, omission with respect thereto. The use of this Report is at the User's sole risk. Under no circumstances, including, but not limited to negligence, shall UN-Habitat or its affiliates be liable for any direct, indirect, incidental, special or consequential damages, even if UN-Habitat has been advised of the possibility of such damages.

List of Acronyms

CSCAF	Climate Smart City Assessment Framework
EOLI	Ease of Living Index
ESCI	Emerging and Sustainable Cities Initiative
GDP	Gross Domestic Product
GEF	Global Environment Facility
GHG	Green House Gas
GIS	Geographical Information System
GPSC	Global Platform for Sustainable Cities
MCC	Mysuru City Corporation
MoHUA	Ministry of Housing and Urban Affairs
MPI	Municipal Performance Index
SCIAP	Sustainable Cities Integrated Approach Pilot
SDG	Sustainable Development Goals
SLB	Service Level Benchmarking
SS 2020	Swachh Survekshan 2020
SWM	Solid Waste Management
UNIDO	United Nations Industrial Development Organisation
UN-Habitat	United Nations Human Settlements Programme
URDPFI	Urban and Regional Development Plans Formulation and Implementation
USAF	Urban Sustainability Assessment Framework

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Key Definitions

Benchmark: Benchmarks refer to a quantitative value set for an indicator to assess the performance to reach the target. Scoring range is based on benchmarks derived from national standards and linked to global standards wherever possible. In the Urban Sustainability Assessment Framework (USAF), for quantitative indicators, indicator value over and above the set benchmark is categorised as excellent performance.

Threshold: Threshold is the minimum level of performance that can be associated with an indicator value to be considered within the sustainability range.

1. Introduction

Mysuru is the third largest city in the State of Karnataka located in the foothills of the Chamundi Hills. It served as the capital under the Wadiyar dynasty from 1399 to 1956, and today it is the divisional headquarters. Wadiyar's were patrons of art, culture, and development, which contributed significantly to the city's culture and economic growth and earned it the sobriquet as the state's "cultural capital." Mysuru is located about 140 km from Bangalore and is well connected by rail and road to different parts of the state and other areas in the country. Over the past decades, the city has transformed itself into a destination for modern industries in the manufacturing, service and Information Technology sectors and is poised as the newest destination for investment in the industrial, educational and tourism sectors.

The Mysuru City Corporation (MCC) has an area of 89.9 sq. km with a population of 9.2 lakh and growth rate of 13.63% between 2001 and 2011 (as per the census). Even though the gross density of the city is 103 PPH, it ranges from 13 PPH to 670 PPH across different neighbourhoods. Mysuru's rapid population growth has resulted in a sprawling development pattern. Less than 8% of the total population lives in slums accounting for 1% of the municipal area.

The major projects for the city includes the Comprehensive development of 200 TPD Solid Waste Management Plant in Kesare, Construction and Demolition waste processing unit, pink toilets for women, Construction of houses for Pourakarmikas under PMAY, Implementation of dedicated cycle track for the India Cycles 4 Change Pilot project, beatification of prime traffic circles and restoration of heritage buildings.

Mysuru falls under the Mysuru Urban Development Authority. The Master Plan was approved in 1997 for the horizon period of 2011. A revision was conducted in 2001. In 2011 the Master Plan was revised for the horizon period of 2031.

This Urban Sustainability Indicators Report for Mysuru is based on the Urban Sustainability Assessment Framework (USAF), developed under the Sustainable Cities Integrated Approach Pilot. It intends to enhance decision-making by augmenting the development potential of Mysuru and strengthening day-to-day management and good governance. It can also help decision-makers prioritize projects to effectively direct resources towards targeted areas for maximum impact and benefit.

2. City Management and Planning Indicators

Urban sustainability indicators are important tools to measure and monitor city's development status and trajectory. The indicators in this report cover 12 sectors, namely, public space-safety-urban form, housing-property, water, sanitation, solid waste management, transportation, social services-facilities, environment-ecology, clean energy, disaster risk management, governance-data management and finance-economy (Figure 2.1). These sectors represent the primary urban planning and management functions of the urban local bodies. The report provides multi-sectoral outlook as well as granular sector-specific data to assess city's performance relative to national and international standards.
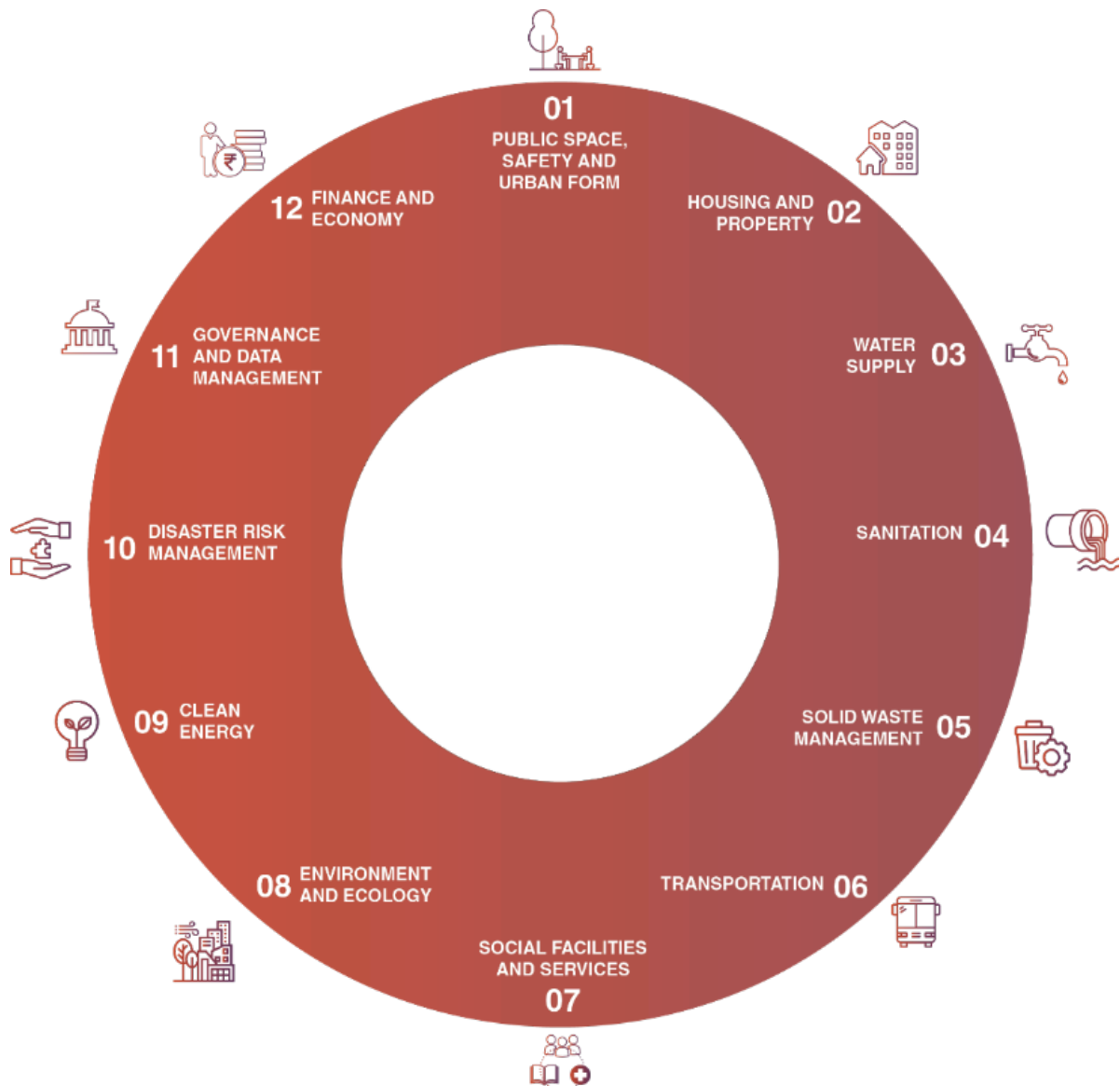
Figure 2.1: Urban Sectors

3. Indicator Categories and Scoring

There are 131 indicators in USAF which are formulated using 235 data inputs across 12 sectors. These 131 indicators have been divided into three levels: 54 are primary, 55 are secondary and 22 are tertiary. The definitions of the levels are specified in Figure 3.1.

Primary	*Covers at least 1 SDG target and/or indicators from 1 or more National and International Frameworks; and/or spatial in nature*	**Comprehensive snapshot of city performance**
Secondary	*May cover 1 SDG target and/or indicators from 1 or more National and International Frameworks*	**Deeper dive into specific sectors**
Tertiary	*May cover SDG targets and/or indicators from National and International Frameworks*	**City priority specific, more granular assessment**

Figure 3.1: Indicator Levels and their Definitions

The indicators are scored on a 7-point scale (very low to excellent performance). A score of 0 (or very low performance) is given when performance is below minimum threshold and score of 6 (or excellent performance) is given when performance meets or exceeds the benchmark set by considering national and global standards. Performance above the set threshold for an indicator procures the score of 1 (or low performance). National urban averages are used as mid-point (score 3 or medium performance) wherever either thresholds or benchmarks weren't available.

For representation, the range of performance follows a spectral colour ramp and varies from two shades of red (very low - low) to two shades of green (high - excellent) with three shades of yellow in between (lower medium - medium - upper medium) *(Figure 3.2).*

Indicator Performance						
0	1	2	3	4	5	6
Very low performance	Low performance	Lower medium performance	Medium performance	Upper medium performance	High performance	Excellent performance

Figure 3.2: Colour gradient of indicator performance

4. Sector-wise City Performance

This section presents the indicator-wise and overall performance of each sector for primary, secondary, and tertiary indicators, based on the data collected and scored in accordance with the scoring methodology. It also includes the status of data collection for each sector.

For Mysuru, 73% of all indicators (96 out of the 131 indicators), have been collected (figure 4.1). 83% of all primary indicators have been collected.
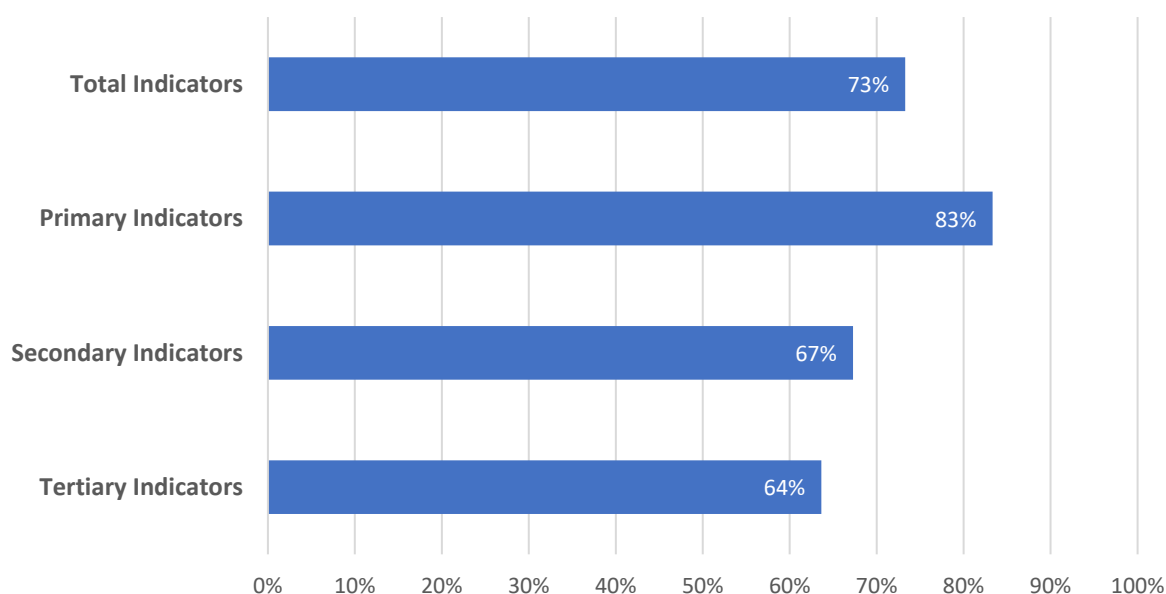
Figure 4.1: Data collection status for Mysuru

In the following sections (4.1 to 4.12), performance of overall sector and each indicator in that sector is given. In the sector wise tables, '-' in the city indicator value column represents unavailable data. These indicators are not scored and represented by '-' in the indicator performance column. In the indicator performance column, 'NA' value represents that the scoring for such indicators is 'Not Applicable' (for descriptive indicators). Overall average for each sector is calculated based on the collected indicators.

All data in this report has been collected and validated by relevant local entity consulted during the preparation (Annex 6.1). A detailed list of all indicators, indicator value, scoring range, city score, indicator type and source framework for each of the 12 sectors is provided in Annexure 6.2.

4.1. Urban Form, Public Space and Safety

There are 9 indicators in this sector, 3 of which are related to safety, 2 to urban form and rest are related to public and open spaces in the city. Data for 4 out of 9 indicators has been collected for Mysuru.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
UPS	1.1	Percentage of city roads covered with street lighting (%)	Primary	-	-
UPS	1.2	Percentage change in the built-up area per capita in the city in between year 2000 and year 2014 (%)	Primary	-24%	NA
UPS	1.3	Percentage of agriculture use area proposed for future developable uses in the Master Development Plan (%)	Primary	92%	NA
UPS	1.4	Percentage of population within 500m distance to public park/open space (%)	Primary	90%	6
UPS	1.5	Open space (includes recreational space, organised green, other common open spaces) per capita (sqm/person)	Primary	-	-
UPS	1.6	Percentage share of pedestrian fatalities in total fatalities (motorized/non-motorized transport) in road accident during a year (%)	Secondary	-	-
UPS	1.7	Percentage of recreational and open space (includes stadiums, theme parks, playgrounds, maidan) of total developable area (%)	Secondary	-	-
UPS	1.8	Rating of safety standards of the city	Tertiary	-	-
UPS	1.9	Amount spent in operations and maintenance per square metre area of parks in the city by the ULB (INR per sqm)	Tertiary	29.48	NA
UPS		**Overall Sector Average Score**			**6**

Table 4.1: Urban Form, Public Space and Safety

4.2. Housing and Property

There are 5 indicators in this sector measuring the status of informal settlements and slums, and housing demand in the city. Data for 4 out of 5 indicators has been collected for Mysuru.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
HP	2.1	Percentage of urban households living in slums/squatter settlements (%)	Primary	6%	6
HP	2.2	Percentage of city area under slums/squatter settlements (%)	Primary	1%	NA
HP	2.3	Percentage of owner-occupied housing units to total housing units (%)	Secondary	33%	0
HP	2.4	Percentage of households spending greater than 30 percent of their income on accommodation expenses (%)	Tertiary	-	-
HP	2.5	Percentage of households living in one room (%)	Tertiary	31%	4
HP		**Overall Sector Average Score**			3

Table 4.2: Housing and Property

4.3. Water

There are 6 indicators to gauge the water resource management including service coverage and efficiency in mapping households with piped connection, metered connections, and measuring the extent of non-revenue water in the city. Data for all 6 indicators has been collected for Mysuru.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
WTR	3.1	Percentage of households with piped connection (%)	Primary	100%	6
WTR	3.2	Percentage of water samples in a year that comply with national potable water quality standards (%)	Primary	97%	4
WTR	3.3	Existence of water resources assessment and management Plan prepared in the last five years.	Primary	Assessment of current water resources along with future demand and water availability for at least five years	3
WTR	3.4	Extent of Non-Revenue Water (%)	Primary	25%	4

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Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
WTR	3.5	Water supply per capita (LPCD)	Secondary	217.32	6
WTR	3.6	Extent of metering of water supply connections (%)	Secondary	100%	6
WTR		**Overall Sector Average Score**			**5**

Table 4.3: Water

4.4. Sanitation

For assessing performance of cities on coverage of sewerage network and toilet facilities and industry compliance with wastewater treatment norms and guidelines, there are 9 indicators in the sanitation sector. Data for 8 out of 9 indicators has been collected for Mysuru.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
SAN	4.1	Percentage of properties in the ULB connected to sewerage network (%)	Primary	100%	6
SAN	4.2	Proportion of households having access to toilet facility (%)	Primary	100%	6
SAN	4.3	Percentage of sewage treated before discharge into surface water bodies (%)	Primary	60%	3
SAN	4.4	Percentage of wastewater samples that passed the specified secondary treatment standards from the total samples collected in a year(%)	Primary	80%	2
SAN	4.5	Percentage of wastewater received at the treatment plant that is recycled or reused after appropriate treatment for various purposes (%)	Primary	5%	0
SAN	4.6	Percentage of city sewage that is treated in a sewage treatment plant (%)	Secondary	89%	5
SAN	4.7	Percentage of industries complying with waste water treatment as per CPCB norms (%)	Secondary	-	-

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Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
SAN	4.8	Existence of FSSM Action plan or notified San-benchmarks, byelaws/ guidelines/ policy notes by the ULB/Development Authority	Secondary	No guidelines/policy/action plan prepared	0
SAN	4.9	Percentage of Public Toilets (PTs) mapped on Google Maps (%)	Tertiary	100%	6
SAN		**Overall Sector Average Score**			4

Table 4.4: Sanitation

4.5. Solid Waste Management

There are 12 indicators in the framework to assess the state of solid waste management which includes the extent of scientific landfill sites, provision for treating hazardous waste and remediation of legacy waste in the city. Data for all 12 indicators has been collected for Mysuru.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
SWM	5.1	Percentage of city's wet waste processed (%)	Primary	97%	6
SWM	5.2	Percentage of the city's dry waste that is separated and classified for recycling/material recovery (%)	Primary	99%	6
SWM	5.3	Percentage of the city's solid waste that is used for energy recovery (incineration) or co-processing (%)	Primary	0%	6
SWM	5.4	Percentage of the city's municipal solid waste that is disposed off in open dumps / controlled dumps, water bodies / is burnt (%)	Primary	2%	6
SWM	5.5	Percentage of waste remediated in the city (%)	Primary	0%	0
SWM	5.6	Percentage of wards practicing source segregation of waste which is maintained till processing/ disposal site (%)	Secondary	100%	6

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
SWM	5.7	ICT based Monitoring Mechanism in place for: i) Ward wise Collection and Transportation (C&T) ii) Monitoring of Garbage Vulnerable Points (GVPs) iii) Attendance of Sanitation Staff	Secondary	3	6
SWM	5.8	Percentage of informal waste pickers integrated into sustainable SWM systems (%)	Secondary	100%	6
SWM	5.9	Percentage of C&D waste collected of the total C&D waste generated (%)	Secondary	100%	6
SWM	5.10	Percentage of hazardous waste processed (%)	Secondary	0%	0
SWM	5.11	Total solid waste generation per capita per day (kg/capita/day)	Tertiary	0.38	4
SWM	5.12	Percentage Coverage of wards under Door-To-Door Collection System (%)	Tertiary	100%	6
SWM		**Overall Sector Average Score**			**5**

Table 4.5: Solid Waste Management

4.6. Transportation

There are 14 indicators in the transportation sector informing about the status of public transport coverage, quality, safety features, and invest in environmentally friendly infrastructure by the ULB. Data for 10 out of 14 indicators has been collected for Mysuru.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
TR	6.1	Percentage of population within 500m distance to public transport stops (%)	Primary	94%	6
TR	6.2	Kilometres of bicycle path per 100,000 population (km)	Primary	0.94	0

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
TR	6.3	Percentage of major roads covered with footpath (footpath wider than 1.2 meters) within the city (%)	Primary	70%	5
TR	6.4	Rate of increase in public transportation ridership (%)	Primary	-	-
TR	6.5	Percentage of shared vehicles that operate on clean fuels like CNG, LPG, biofuels or are hybrid or electric vehicles (%)	Primary	0%	0
TR	6.6	Road density (km/sqkm)	Primary	20.81	NA
TR	6.7	Average travel speed in major roads of the city (kmph)	Secondary	-	-
TR	6.8	Percentage share of NMT in commuting (cycling and walking) (%)	Secondary	-	-
TR	6.9	Street intersection density (intersections/sqkm)	Secondary	410.15	6
TR	6.10	Kilometres of road with public transit per 100,000 population (km)	Secondary	184.77	6
TR	6.11	Fatal and serious injuries in road accidents per lakh population (number)	Secondary	81.63	0
TR	6.12	Accessibility of differently-abled groups to Public Buses (%)	Secondary	14%	0
TR	6.13	Workplace accessibility within 30 minutes of transit (%)	Tertiary	-	NA
TR	6.14	Percentage of total area of ULB allocated to streets (%)	Tertiary	18%	2
TR		**Overall Average Sector Score**			**3**

Table 4.6: Transportation

4.7. Social Facilities and Services

Out of the 11 indicators in the social facilities and services sector, 4 indicate about the demography, 5 are related to the health and 3 to the status of education in the city. Data for 5 out of 11 indicators has been collected for Mysuru.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
SCL	7.1	Percentage of population within 800m distance to healthcare facilities (public/private) (%)	Primary	91%	4
SCL	7.2	Percentage of females of ages 7 and above who are literate (%)	Primary	85%	4
SCL	7.3	Percentage of population within 800m distance to primary/secondary schools (public/private) (%)	Primary	65%	0
SCL	7.4	Change in decadal population growth rate (1991-2001 and 2001-2011) (%)	Secondary	-11%	NA
SCL	7.5	City Level Dependency Ratio (%)	Secondary	50%	NA
SCL	7.6	Under-five mortality rate per 1000 births (number)	Secondary	-	-
SCL	7.7	Bed density in public and private hospitals (Hospital beds per 10,000 residents) (number)	Secondary	-	-
SCL	7.8	Percentage reduction in prevalence of vector borne diseases(malaria, dengue) over the previous year (%)	Secondary	-	-
SCL	7.9	Percentage reduction in prevalence of waterborne diseases (Diarrhoea, typhoid) over the previous year (%)	Secondary	-	-
SCL	7.1	Percentage of schools with Access to Digital Education (%)	Secondary	-	NA
SCL	7.11	Percentage of mobile network, by 3G and 4G technology subscriptions (%)	Tertiary	-	-
SCL		**Overall Sector Average Score**			3

Table 4.7: Social Facilities and Services

4.8. Environment and Ecology

With 18 indicators to examine whether ULBs have a clean air action plan, are equipped to measure the major pollutants, as well as disaggregate emissions data to the specific sectors, this is one of the most important sectors of USAF. Data for 13 out of 18 indicators has been collected for Mysuru.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
ENV	8.1	Clean Air Action Plan (Planning and Implementation)	Primary	Clean Air Action Plan and Pollutants Source Identification	3
ENV	8.2	Existence of a GHG emissions measurement system with a monitoring system (Y/N)	Primary; Aspirational	No	0
ENV	8.3	Total annual GHG emissions (MtCO2e)	Primary; Aspirational	1122848	NA
ENV	8.4	Proportion of Tree Cover to the total ULB area(%)	Primary	-	-
ENV	8.5	Extent to which city is acting for protection, conservation and management of urban biodiversity	Primary	No action initiated	0
ENV	8.6	Number of structural and financial incentives for green buildings implemented (number)	Primary	One or two incentives	3
ENV	8.7	Annual mean Air Quality Index(AQI) (number)	Secondary	32	6
ENV	8.8	Annual CO2 equivalent (GHG) emissions per capita (MtCO2e/capita)	Secondary; Aspirational	1.44	NA
ENV	8.9	Annual CO2 equivalent emissions from the transportation sector (MtCO2e)	Secondary; Aspirational	278489	NA
ENV	8.10	Biochemical Oxygen Demand 3 day, 270C (mg/l)	Secondary	-	-
ENV	8.11	Area under ULB covered by trees per inhabitant (sqm per person)	Secondary	-	-

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
ENV	8.12	Is there a land use plan that includes zoning with environmental protection and preservation zones? (Y/N)	Secondary	Yes	6
ENV	8.13	Annual mean levels of PM10 (µg/m3)	Tertiary	50.2	3
ENV	8.14	Annual mean levels of PM2.5 (µg/m3)	Tertiary	23.2	3
ENV	8.15	Annual concentration of NO2 (µg/m3)	Tertiary	18.5	6
ENV	8.16	Average daily concentration of SO2 (µg/m3)	Tertiary	4.6	6
ENV	8.17	Total annual methane emissions (MtCO2e)	Tertiary; Aspirational	-	NA
ENV	8.18	Existence, monitoring and enforcement of regulations on noise pollution (Y/N)	Tertiary	Yes	6
ENV		**Overall Sector Average Score**			**4**

Table 4.8: Environment and Ecology

4.9. Clean Energy

There are 8 indicators in to assesses the current distribution network, coverage and stability, accessibility of households to natural gas for cooking, and current per capita consumption. Data for 3 out of 8 indicators has been collected for Mysuru.

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
CE	9.1	Percentage of the city's households using LPG/PNG for cooking (%)	Primary	77%	2
CE	9.2	Percentage of total electrical energy in the city derived from renewable sources (%)	Primary	-	-
CE	9.3	Proportion of population in the city who have access to renewable energy (%)	Primary; Aspirational	-	-
CE	9.4	Percentage of energy-efficient street lighting in the city (%)	Primary	94%	5

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
CE	9.5	Energy use per capita (kWh)	Primary	-	NA
CE	9.6	Percentage of the city's households with an authorized connection to electrical energy (%)	Secondary	-	-
CE	9.7	Do existing building codes consider eco-friendly techniques and/or the use of local/renewable material? (Y/N)	Secondary	Yes	6
CE	9.8	System Average Interruption Frequency Index (SAIFI) (number)	Tertiary	-	-
CE		**Overall Sector Average Score**			**4**

Table 4.9: Clean Energy

4.10. Disaster Risk Management

There are 6 indicators to analyse the state of preparedness of the city in an event of natural disasters (flood, earthquakes and cyclones) and manmade disasters (incidence of fire). Data for 4 out of 6 indicators has been collected for Mysuru.

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
DRM	10.1	Presence of City Disaster Management Plan prepared / updated in last five years (Y/N)	Primary	No Plan	0
DRM	10.2	Existence of hazard vulnerability maps/risk maps (at city level) prepared / updated in the last five years for the main hazards threatening the city (Y/N)	Primary	Maps not prepared	0
DRM	10.3	Percentage of households at risk due to placement in areas of non-mitigable risk within the ULB (%)	Primary	-	-
DRM	10.4	Percentage of buildings within 4km distance to fire service facility (%)	Primary	-	-
DRM	10.5	Presence of hazard early warning systems linked with command control system.	Secondary	Presence of hazard early warning system but no linkage with ULB	3

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
				Command Control system	
DRM	10.6	Existence of urban flood / water stagnation risk assessment and management plan	Secondary	0	0
DRM		**Overall Sector Average Score**			**1**

Table 4.10: Disaster Risk Management

4.11. Governance and Data Management

There are 14 indicators to analyse the extent to which the ULBs are effectively directing the planning and management of the City. Data for 13 out of 14 indicators has been collected for Mysuru.

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
GOV	11.1	Number of planners per capita (number)	Primary	0.15	0
GOV	11.2	Years since enforced master plan/development plan was last reviewed and updated (number of years)	Primary	8	3
GOV	11.3	Number of services being managed through command and control system in the ULB (eg: SCADA, ICCC etc) (number)	Primary	2	0
GOV	11.4	Number of functions being implemented by ULB out of 18 functions stipulated in the Twelfth schedule of Indian constitution (number)	Primary	Between 15 and 17	3
GOV	11.5	Existence of Geographic information System (GIS) based Master Plan for the city	Primary	Presence of GIS base Master Plan prepared / updated before 2015	3
GOV	11.6	Environmental status report with action plans published by the ULB for the last three years	Secondary	No	0

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
GOV	11.7	Percentage of total staff trained during the year in any of the ULB functionary domains (%)	Secondary	-	-
GOV	11.8	Number of E-governance initiatives undertaken by the ULB: a. ULB website (Y/N) b. Online Public Service Delivery (Services provided online as a proportion of total Services provided) c. Online Public Service Delivery on Mobile (Services provided via mobile as a proportion of total Services provided) d. Online Grievance Redressal (number of grievances received online as a proportion of total grievances received) e. Online Grievance Redressal on Mobile (Services provided via mobile as a proportion of total Services provided)	Secondary	5	6
GOV	11.9	Local development control regulations and master plan / development plan are accessible completely through the web.	Secondary	Both available online	6
GOV	11.10	Number of stipulated committees in the ULB: 1) Municipal Committee/Council 2) Ward Committee 3) Metropolitan Planning Committee / District Planning Committee 4) Project Coordination /Monitoring Committee 5) Town Vending Committee (Street vendors) 6) Heritage Conservation Committee	Secondary	6	6
GOV	11.11	ULB's citizen charter and appeal mechanisms	Secondary	Exist only offline	3
GOV	11.12	Presence of City data officer (Y/N)	Secondary	No	0
GOV	11.13	Proportion of Women councillors in Municipal Council (%)	Tertiary	49%	3
GOV	11.14	Digital Governance: Presence on Open Data Portal	Tertiary	No	0

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Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
GOV		Overall Sector Average Score			3

Table 4.11: Governance and Data Management

4.12. Finance and Economy

Out of the total 19 indicators in this sector, 13 indicators are related to analysing the status of municipal finance in the city and the remaining 6 indicators suggest about the performance of the economic factors. Data for 12 out of 19 indicators has been collected for Mysuru.

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
FIN	12.1	Credit rating of the ULB	Primary	Between BBB and A	3
FIN	12.2	Total property tax collected as a percentage of total property tax billed in the same financial year (%)	Primary	97%	6
FIN	12.3	Financial dependency: Percentage of grants received from central and state governments to total revenue (%)	Primary	59%	1
FIN	12.4	Growth rate of GDP per capita (%)	Primary	-	NA
FIN	12.5	Change in Own Source Revenue (number of years with OSR > 20%)	Secondary	5	6
FIN	12.6	Operating margin: Difference in revenue and expenditure in the financial year (INR in Lakhs)	Secondary	-94.82	0
FIN	12.7	Total cost of annual debt service as a percentage of expenditure (%)	Secondary	0%	NA
FIN	12.8	Percentage of debt/loans in overall budget allocation (%)	Secondary	0%	6
FIN	12.9	Properties covered under the tax net expressed as percentage of total properties within the municipality (%)	Secondary	100%	6

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
FIN	12.10	Efficiency of Capital expenditure spending: Actual capital expenditure spent expressed as a percentage of the budgeted capital expenditure in the financial year (%)	Secondary	78%	5
FIN	12.11	Cost Recovery in Water Supply: Total operating revenues expressed as a percentage of the total operating expenses incurred towards water supply services in the given financial year (%)	Secondary	45%	2
FIN	12.12	Cost Recovery in Sanitation: Total operating revenues expressed as a percentage of the total operating expenses incurred towards sanitation services in the financial year (%)	Secondary	91%	6
FIN	12.13	Cost Recovery in Solid Waste Management: Total operating revenues expressed as a percentage of the total operating expenses incurred towards solid waste management services in the financial year (%)	Secondary	18%	0
FIN	12.14	Unemployment rate of persons of age 15 years and above (%)	Secondary	-	-
FIN	12.15	Inequality Index based on Consumption Expenditure- Gini Coefficient (score)	Secondary	-	NA
FIN	12.16	Percentage of workforce employed in the service sector (%)	Secondary	-	NA
FIN	12.17	Total capital expenditure as percentage of total expenditure (%)	Tertiary	47%	6
FIN	12.18	GDP density as a percentage of the built-up area of the local government (%)	Tertiary	-	NA
FIN	12.19	Informal employment as percentage of total employment (%)	Tertiary	-	NA
FIN		**Overall Sector Average Score**			4

Table 4.12: Finance and Economy

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5. Highlights and Way Forward

The overall performance of Mysuru is rated as "3 – average" based on the data collected, with Sector 1-Urban Form, Public Space & Safety, Sector 2-Water, and Sector 5- Solid waste management, scoring highest, and Sector 10- Disaster Risk Management, and Sector 11- Governance and Data Management, scoring lowest. (Figure 5.1). The average performance of each sector is represented using the 7-point colour gradient.
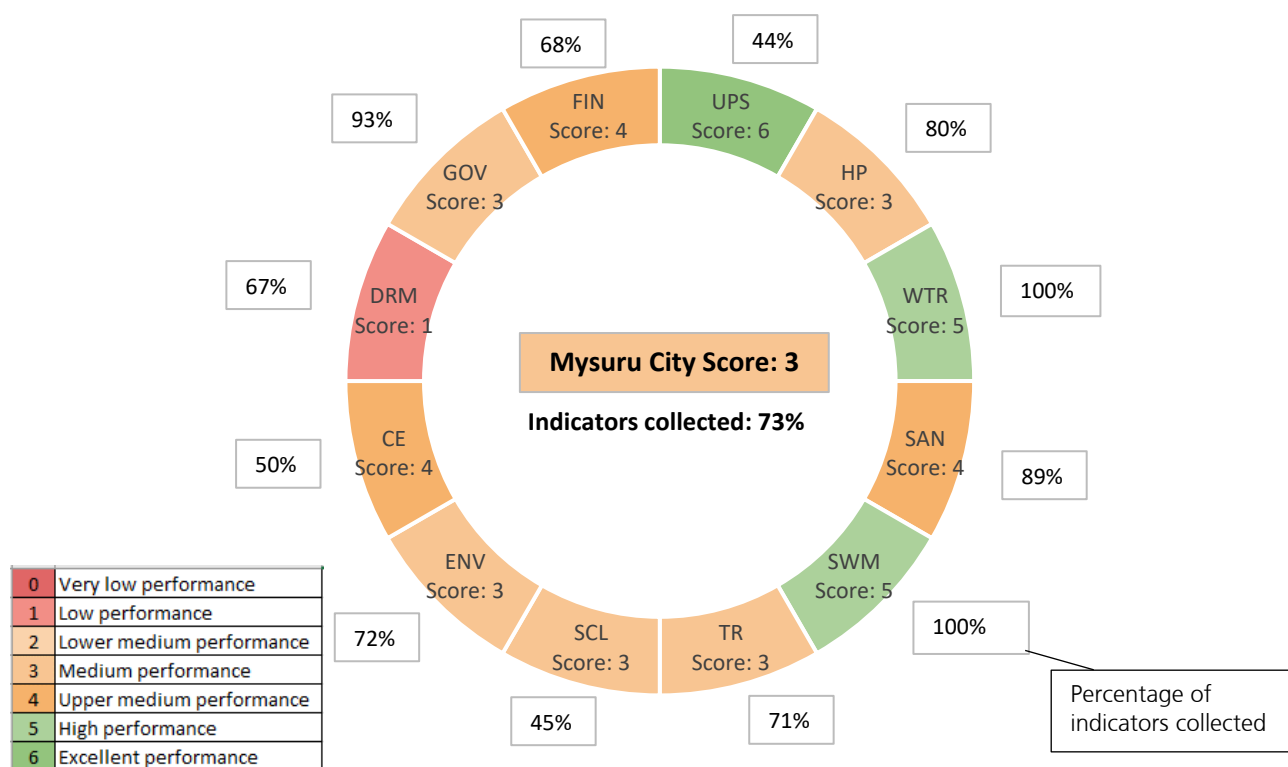
Figure 5.1: Average performance and percentage of indicators collected for all sectors

Amongst all the sectors, the highest five performing primary indicators are enlisted in Table 5.1 and the lowest five indicators in Table 5.2.[1]

Code	Number	Indicators	Indicator Category	Benchmark	Indicator Value
HP	2.1	Percentage of urban households living in slums/squatter settlements (%)	Primary	10%	6%

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[1] The highest and lowest primary performing indicators are determined by taking the difference between the benchmark and the indicator value. Some of the lowest performing indicators may emerge from the highest average performing sectors or vice-versa.

Code	Number	Indicators	Indicator Category	Benchmark	Indicator Value
WTR	3.1	Percentage of households with piped connection (%)	Primary	100%	100%
SAN	4.1	Percentage of properties in the ULB connected to sewerage network (%)	Primary	100%	100%
SAN	4.2	Proportion of households having access to toilet facility (%)	Primary	100%	100%
SWM	5.3	Percentage of the city's solid waste that is used for energy recovery (incineration) or co-processing (%)	Primary	5%	0%

Table 5.1: Highest performing primary indicators

Code	Number	Indicator	Indicator Category	Benchmark	Indicator Value
SWM	5.5	Percentage of waste remediated in the city (%)	Primary	95%	25%
TR	6.2	Kilometres of bicycle path per 100,000 population (km)	Primary	25	0.94
CE	9.4	Percentage of energy-efficient street lighting in the city (%)	Primary	100%	16%
GOV	11.1	Number of planners per capita (number)	Primary	1	0.15
GOV	11.3	Number of services being managed through command and control system in the ULB (eg: SCADA, ICCC etc) (number)	Primary	10	2

Table 5.2: Lowest performing primary indicators

Mysuru Urban Sustainability Indicators Report is the foundation for an in-depth city profile, diagnostics and assessment for sustainable and resilient urban planning and management. Indicators are important input into the Urban Sustainability Assessment Framework (USAF), designed as a decision support tool for municipal commissioners, chief town planners, and urban practitioners to undertake evidence-based and spatially

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informed policy, regulatory, and granular development decisions. USAF methodology is documented in detail in Technical Document.

Regularly updated Urban Sustainability Indicators Report is crucial for identifying gaps and opportunities across the 12 sectors, thereby providing stronger impetus for master plan revision, preparing capital investment plans and development projects. Urban Sustainability Indicators Report can also be used for monitoring impact of policies and projects on local communities.

The Urban Sustainability Indicators Report is recommended to be prepared annually. In the future, MCC may customise its reporting based on relevant priority sectors at the time. The reporting framework is adaptable to meet the context of each city. However, it is recommended that cities report on all primary indicators and select from the menu of secondary and tertiary indicators. Public disclosure of data is encouraged to enable participation of community and other stakeholders in city's vision and development.

6. Annexures

6.1. List of Consultations

Means of engagement	Department	Name and Designation of official(s) attending	No. of indicators for discussion	Date	Location	Documentation
Tier 1 Stakeholders Consultations						
Group 1 (In-person discussion)	MCC (Administration)	Mr. Gurudatta Hegde, Commissioner	35	31-12-2020	MCC Commissioner Home office	NA
	MCC (Engineering Department)	Mr. Biligiriranga Swamy, Deputy Commissioner Development				
	MCC (Health Department)	Dr. Jayanth, Chief Health Officer				
		Dr. Nagaraj, Health Officer				
		Mr Mrutunjaya, Asst Executive Engineer				
		Mr. Raju, Junior Engineer				
Group 2 (In-person discussion)	MCC (Water Department)	Ms. Suvarna, Executive Engineer	6	12-07-2020	Vani Villas Water Works Office	
		Mr. Avinash, Asst Executive Engineer				
Group 3 (In-person discussion)	MCC (Electricity Department)	Mr. Harsha, Executive Engineer	6	12-07-2020	EE Chescom Office	
	CHESCOM	Executive Engineer				
Group 4 (In-person discussion)	MCC (Town Planning Department)	Mr. Ramesh, Town Planning Officer	22	15-12-2020	TPO Office	
		Ms. Ramya, Asst Town Planner				
Group 5 (In-person discussion)	MCC (Finance Department)	Chief Accounts Officer	13	23-11-2020	CAO Office	
		Accounts Officer				
Group 6 (In-person discussion)	MCC (Revenue Department)	Mr. T B Kumara Naik, Deputy Commissioner (Revenue)	2	16-12-2020	Revenue Office	

Means of engagement	Department	Name and Designation of official(s) attending	No. of indicators for discussion	Date	Location	Documentation
Group 7 (In-person discussion)	MCC (UGD Department)	Ms. Kousalya, Asst Executive Engineer	9	08-12-2020	UGD Office	
Tier 2 Stakeholders Consultations						
In-Person discussion	Karnataka State Road Transport Corporation (KSRTC)	Division Controller	4	29-10-2020	DCO office, KSRTC Mysuru Urban	NA
		Division Transport Officer				
In-Person discussion	Karnataka State Pollution Control Board (KSPCB)	Regional Officer	19	28-10-2020; 7-11-2020	KSPCB Mysuru Division Office	
		Environmental Officer				
In-Person discussion	Karnataka Slum Development Board	Executive Engineer	3	12-11-2020	KSDB EE office	
		Asst Engineer				
In-Person discussion	District Health Department	Regional Health Officer	5	12-10-2020	RHO office	
		City Data Officer				
		WHO Representative				
Tele consultation	Regional Transport Office	RTO west	2	29-10-2020		
In-person discussion	District Urban Development Cell	Executive Engineer	6	30-12-2020	EE office	

6.2. Indicator Sheet with City Performance

The detailed methodology of evolution of the following indicators and explanation of the entire USAF process is documented in the USAF report. Details of each indicator including its calculation, formulation and performance evaluation levels is documented in the USAF technical manual report.

Data requested: Data has been requested from ULB or concerned departments and is awaited; **Data to be verified:** Input data yet to be verified from concerned officials; **Data not available**: Data not available for the city

							7 Point Scoring Range							
Code	**Number**	**Indicator**	**Primary/ Secondary/ Tertiary; Aspirational**	**Type of Indicator**	**City Indicator Value**	**Source Reference Framework**	**Source of Threshold / National Average / Benchmark**	**0** (Very low performance)	**1** (Low performance)	**2** (Lower medium performance)	**3** (Medium performance)	**4** (Upper medium performance)	**5** (High performance)	**6** (Excellent performance)	**City Score**
header: **1. URBAN FORM, PUBLIC SPACE AND SAFETY**															
UPS	1.1	Percentage of city roads covered with street lighting (%)	Primary	Non-spatial	Data requested	MPI (1.6.1)	The Twelfth schedule of Indian constitution; Pg.356 https://www.india.gov.in/sites/upload_files/npi/files/coi-eng-schedules_1-12.pdf	<80%	80%-83.9%	84%-87.9%	88%-91.9%	92%-95.9%	96%-99.9%	100%	-
UPS	1.2	Percentage change in the built-up area per capita in the city in between year 2000 and year 2014 (%)	Primary	Spatial	-24%	GPSC	[Descriptive Indicator]	NA[2]	NA	NA	NA	NA	NA	NA	NA
UPS	1.3	Percentage of agriculture use area proposed for future developable uses in the Master Development Plan (%)	Primary	Non-spatial	92%	Expert recommended	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
UPS	1.4	Percentage of population within 500m distance to public park/open space (%)	Primary	Spatial	90%	NIF (11.7.1)	Source of distance of 500m: URDPFI, Vol 1, pg. 356 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I.pdf	<50%	50%-55.9%	56%-61.9%	62%-67.9%	68%-73.9%	74%-79.9%	>=80%	6
UPS	1.5	Open space (includes recreational space, organised green, other common open spaces) per capita (sqm/person)	Primary	Non-spatial	Data requested	CPI(4.1)	URDPFI, Vol 1, pg. 362 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I.pdf	<10sqm	10-10.3 sqm	10.4-10.7 sqm	10.8-11.1 sqm	11.2-11.5 sqm	11.6-11.9 sqm	>=12sqm	-
UPS	1.6	Percentage share of pedestrian fatalities in total fatalities (motorized/non-motorized transport) in road accident during a year (%)	Secondary	Non-spatial	Data requested	Expert recommended	SLBs for Urban Transport, GoI; Pg.35 http://mohua.gov.in/upload/uploadfiles/files/Service_level.pdf Accidental deaths & suicides in India - 2019 (Statistics) - Table 1A.3; National Crime Records Bureau https://ncrb.gov.in/sites/default/files/adsi_report	>19.25%	19.25%-15.3%	15.4%-11.45%	11.55%-7.6%	7.7%-3.75%	3.85%--0.1%	0%	-

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[2] NA in the 7-point scoring range and city score columns refers to 'Not Applicable' as descriptive indicators in USAF are not scored.

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1. URBAN FORM, PUBLIC SPACE AND SAFETY

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	City Score
											7 Point Scoring Range				
							s_previous_year/Table-1A.3_2019.pdf								
UPS	1.7	Percentage of recreational and open space (includes stadiums, theme parks, playgrounds, maidan) of total developable area (%)	Secondary	Non-spatial	Data requested	Expert recommended	URDPFI, Vol 1, Pg 143 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I.pdf	<25%	25%-26.9%	27%-28.9%	29%-30.9%	31%-32.9%	33%-34.9%	>=35%	-
UPS	1.8	Rating of safety standards of the city	Tertiary; Aspirational	Non-spatial	Data requested	EOLI (Perception Survey: 1.6)	Ease of living-Perception survey) (Pg. 34) https://smartnet.niua.org/eol19/pdf/EOL-2019-Completed-Version.pdf	Poor	NA	NA	Fair	NA	NA	Good	-
UPS	1.9	Amount spent in operations and maintenance per square metre area of parks in the city by the ULB (INR per sqm)	Tertiary	Non-spatial	29.47	Expert recommended	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA

2. HOUSING AND PROPERTY

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	City Score
											7 Point Scoring Range				
HP	2.1	Percentage of urban households living in slums/squatter settlements (%)	Primary	Non-spatial	s	EOLI (1.3.4)	Handbook of urban statistics 2019, Pg. no: 24 http://mohua.gov.in/pdf/5c80e2225a124Handbook%20of%20Urban%20Statistics%202019.pdf	>27.5%	27.5%-23.9%	24%-20.4%	20.5%-16.9%	17%-13.4%	13.5%-9.9%	<=10%	6
HP	2.2	Percentage of city area under slums/squatter settlements (%)	Primary	Non-spatial	1%	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
HP	2.3	Percentage of owner-occupied housing units to total housing units (%)	Secondary	Non-spatial	33%	MDPI (3.6)	NA	<52.5%	52.5%-57.9%	58%-63.4%	63.5%-68.9%	69%-74.4%	74.5%-79.9%	>=80%	0
HP	2.4	Percentage of households spending greater than 30 percent of their income on accommodation expenses (%)	Tertiary	Non-spatial	Data not available	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	-
HP	2.5	Percentage of households living in one room (%)	Tertiary	Non-spatial	31%	CPI (1.5)	Handbook of urban statistics 2019 pg. no: 159 http://mohua.gov.in/pdf/5c80e2225a124Handb	>80%	80%-64.9%	65%-49.9%	50%-34.9%	35%-19.9%	20%-4.9%	<=5%	4

2. HOUSING AND PROPERTY

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
							ook%20of%20Urban%20Statistics%202019.pdf								

3. WATER

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
WTR	3.1	Percentage of households with piped connection (%)	Primary	Non-spatial	100%	MPI (1.3.1)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 23 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf C-WAS (Centre for Water and Sanitation) - Interactive Dash Borad for Water Supply (2018) https://www.pas.org.in/web/ceptpas/interactivedashboards?p_p_id=InteractiveDashboard_WAR_Portal&p_p_lifecycle=1&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_count=1&actionVal=Retrieve&SkipAccessChecking=false	<20%	20%-35.9%	36%-51.9%	52%-67.9%	68%-83.9%	84%-99.9%	100%	6
WTR	3.2	Percentage of water samples in a year that comply with national potable water quality standards (%)	Primary	Non-spatial	97%	GPSC	Handbook of Service Level Benchmarking - CPHEEO; Pg. 33 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf	<90%	90%-91.9%	92%-93.9%	94%-95.9%	96%-97.9%	98%-99.9%	100%	4
WTR	3.3	Existence of water resources assessment and management Plan prepared in the last five years	Primary	Non-spatial	Assessment of current water resources along with future demand and water availability for at least five years	CSCAF (4.4: Indicator 1)	NA	No water resource assessment has been carried out	NA	NA	Assessment of current water resources along with future demand and water availability for at least five years	NA	NA	Water Resource Management (WRM) Plan is prepared with Short, Medium- and Long-Term Actions	3
WTR	3.4	Extent of Non-Revenue Water (%)	Primary	Non-spatial	25%	CSCAF (4.4: Indicator 2)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 28 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf	>40%	40%-35.9%	36%-31.9%	32%-27.9%	28%-23.9%	24%-19.9%	<=20%	4

3. WATER

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
WTR	3.5	**Water supply per capita (LPCD)**	Secondary	Non-spatial	217	MPI (1.3.2)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 25 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf	<135 lpcd	135-137.9 lpcd	138-140.9 lpcd	141-143.9 lpcd	144-146.9 lpcd	147-149.9 lpcd	>=150 lpcd	6
WTR	3.6	**Extent of metering of water supply connections (%)**	Secondary	Non-spatial	100%	MPI (1.3.3)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 27 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf	<20%	20%-35.9%	36%-51.9%	52%-67.9%	68%-83.9%	84%-99.9%	100%	6

4. SANITATION

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
SAN	4.1	**Percentage of properties in the ULB connected to sewerage network (%)**	Primary	Non-spatial	100%	MPI (1.4.6)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 42 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf C-WAS (Centre for Water and Sanitation) - Interactive Dashboard for Sanitation (2018) https://www.pas.org.in/web/ceptpas/interactivedashboards?p_p_id=InteractiveDashboard_WAR_Portal&p_p_lifecycle=1&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_count=1&actionVal=Retrieve&SkipAccessChecking=false	<80%	80%-83.9%	84%-87.9%	88%-91.9%	92%-95.9%	96%-99.9%	100%	6
SAN	4.2	**Proportion of households having access to toilet facility (%)**	Primary	Non-spatial	100%	NIF (6.2.1)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 40 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf Swachh Bharat Mission - Urban ODF	<90%	90%-91.9%	92%-93.9%	94%-95.9%	96%-97.9%	98%-99.9%	100%	6

4. SANITATION

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
						https://swachhodfurban.org/									
SAN	4.3	Percentage of sewage treated before discharge into surface water bodies (%)	Primary	Non-spatial	60%	NIF (6.3.1)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 46 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf	<20%	20%-35.9%	36%-51.9%	52%-67.9%	68%-83.9%	84%-99.9%	100%	3
SAN	4.4	Percentage of wastewater samples that passed the specified secondary treatment standards from the total samples collected in a year(%)	Primary	Non-spatial	80%	Expert recommended	Handbook of Service Level Benchmarking - CPHEEO; Pg. 49 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf	<70%	70%-75.9%	76%-81.9%	82%-87.9%	88%-93.9%	94%-99.9%	100%	2
SAN	4.5	Percentage of wastewater received at the treatment plant that is recycled or reused after appropriate treatment for various purposes (%)	Primary	Non-spatial	5%	CSCAF (4.4: Indicator 3)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 51 http://cpheeo.gov.in/upload/uploadfiles/files/Handbook.pdf C-WAS (Centre for Water and Sanitation) - Interactive Dashboard for Sanitation (2018) https://www.pas.org.in/web/ceptpas/interactivedashboards?p_p_id=InteractiveDashboard_WAR_Portal&p_p_lifecycle=1&p_p_state=normal&p_p_mode=view&p_p_col_id=column-1&p_p_col_count=1&actionVal=Retrieve&SkipAccessChecking=false Climate Smart City Assessment Framework Pg. 47	<10%	10%-11.9%	12%-13.9%	14%-15.9%	16%-17.9%	18%-19.9%	>=20%	0
SAN	4.6	Percentage of city sewage that is treated in a sewage treatment plant (%)	Secondary	Non-spatial	89%	MPI (1.4.5)	Municipal Performance Index Pg. 38 https://smartnet.niua.org/eol19/pdf/MPI_Methodology.pdf Table: State-wise details of sewage generation in urban areas and treatment capacity	<20%	20%-35.9%	36%-51.9%	52%-67.9%	68%-83.9%	84%-99.9%	100%	5

4. SANITATION														
			Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
Code	Number	Indicator						0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
							available; National status of wastewater generation & treatment http://www.sulabhenvis.nic.in/Database/STST_wastewater_2090.aspx								
SAN	4.7	Percentage of industries complying with waste water treatment as per CPCB norms (%)	Secondary	Non-spatial	Data requested	Expert recommended	NA	<80%	80%-83.9%	84%-87.9%	88%-91.9%	92%-95.9%	96%-99.9%	100%	-
SAN	4.8	Existence of FSSM Action plan or notified San-benchmarks, byelaws/ guidelines/ policy notes by the ULB/Development Authority	Secondary	Non-spatial	No guidelines/policy/action plan prepared	SS 2020 (3.1)	NA	No guidelines/policy/action plan prepared	NA	NA	Work under progress	NA	NA	Guidelines/policy/action plan prepared	0
SAN	4.9	Percentage of Public Toilets (PTs) mapped on Google Maps (%)	Tertiary	Non-spatial	100%	SS 2020 (3.8)	Swachh Bhasrat Mission Urban http://sbmtoilet.org/backend/web/index.php?r=site%2Flogin	<80%	80%-83.9%	84%-87.9%	88%-91.9%	92%-95.9%	96%-99.9%	100%	6

5. SOLID WASTE MANAGEMENT														
			Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
Code	Number	Indicator						0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
SWM	5.1	Percentage of city's wet waste processed (%)	Primary	Non-spatial	90%	CSCAF (4.5: Indicator 4)	PIB - Swacch Survekshan 2020 https://pib.gov.in/PressReleasePage.aspx?PRID=1598072	<40%	40%-45.9%	46%-51.9%	52%-57.9%	58%-63.9%	64%-69.9%	>=70%	6
SWM	5.2	Percentage of the city's dry waste that is separated and classified for recycling/material recovery (%)	Primary	Non-spatial	99%	SS 2020 (2.3)	PIB - Swacch Survekshan 2020 https://pib.gov.in/PressReleasePage.aspx?PRID=1598072	<40%	40%-43.9%	44%-47.9%	48%-51.9%	52%-55.9%	56%-59.9%	>=60%	6
SWM	5.3	Percentage of the city's solid waste that is used for energy recovery (incineration) or co-processing (%)	Primary	Non-spatial	0%	Expert Recommended	https://datatopics.worldbank.org/what-a-waste/trends_in_solid_waste_management.html	>10%	10%-8.9%	9%-7.9%	8%-6.9%	7%-5.9%	6%-4.9%	<=5%	6
SWM	5.4	Percentage of the city's municipal solid waste that is disposed off in open dumps / controlled dumps, water bodies / is burnt (%)	Primary	Non-spatial	2%	Expert Recommended	Annual report 2017-18 on solid waste management; Available at https://cpcb.nic.in/uploads/MSW/MSW_AnnualReport_2017-18.pdf Global waste disposal in open dumpsites https://datatopics.worldba	>50%	50%-43.9%	44%-37.9%	38%-31.9%	32%-25.9%	26%-19.9%	<=20%	6

								7 Point Scoring Range							
Code	**Number**	**Indicator**	**Primary/ Secondary/ Tertiary; Aspirational**	**Type of Indicator**	**City Indicator Value**	**Source Reference Framework**	**Source of Threshold / National Average / Benchmark**	**0** (Very low performance)	**1** (Low performance)	**2** (Lower medium performance)	**3** (Medium performance)	**4** (Upper medium performance)	**5** (High performance)	**6** (Excellent performance)	**City Score**

							nk.org/what-a-waste/trends_in_solid_waste_management.html								
SWM	5.5	**Percentage of waste remediated in the city (%)**	Primary	Non-spatial	0%[3]	SS 2020 (2.7)	NA	<40%	40%-50.9%	51%-61.9%	62%-72.9%	73%-83.9%	84%-94.9%	>=95%	**0**
SWM	5.6	**Percentage of wards practicing source segregation of waste which is maintained till processing/ disposal site (%)**	Secondary	Non-spatial	100%	SS 2020 (1.2)	(SS 2020 results, Pg. 15) https://www.swachhsurvekshan2020.org/ImpDocs/SS2020fullreport.pdf	<20%	20%-25.9%	26%-31.9%	32%-37.9%	38%-43.9%	44%-49.9%	>=50%	**6**
SWM	5.7	**ICT based Monitoring Mechanism in place for: i) Ward wise Collection and Transportation (C&T) ii) Monitoring of Garbage Vulnerable Points (GVPs) iii) Attendance of Sanitation Staff**	Secondary	Non-spatial	3	SS 2020 (1.3)	NA	If 0 ICT Based Monitoring mechanisms	NA	NA	If 1 or 2 ICT Based Monitoring mechanisms	NA	NA	If all 3 ICT Based Monitoring mechanisms	**6**
SWM	5.8	**Percentage of informal waste pickers integrated into sustainable SWM systems (%)**	Secondary	Non-spatial	100%	SS 2020 (1.4)	NA	<60%	60%-63.9%	64%-67.9%	68%-71.9%	72%-75.9%	76%-79.9%	>=80%	**6**
SWM	5.9	**Percentage of C&D waste collected of the total C&D waste generated (%)**	Secondary	Non-spatial	100%	SS 2020 (2.6)	NA	<60%	60%-66.9%	67%-73.9%	74%-80.9%	81%-87.9%	88%-94.9%	>=95%	**6**
SWM	5.10	**Percentage of hazardous waste processed (%)**	Secondary	Non-spatial	0%[4]	SS 2020 (2.5)	CPCB Annual Report 2018-19; https://cpcb.nic.in/openpdffile.php?id=UmVwb3J0RmlsZXMvMTExOV8xNTk3MDM3NTM0X21lZGlhcGhvdG8xOTY1NwZGY=	<50%	50%-53.9%	54%-57.9%	58%-61.9%	62%-65.9%	66%-69.9%	>=70%	**6**
SWM	5.11	**Total solid waste generation per capita per day (kg/capita/day)**	Tertiary	Non-spatial	0.38	SS 2020 (2.1)	Swacch Bharta Mission, Part II Manual (2016) Pg 83; World Bank https://datatopics.worldbank.org/what-a-waste/trends_in_solid_waste_management.html http://mohua.gov.in/upload/uploadfiles/files/Part2.pdf	>1.1	1.1-0.89	0.9-0.69	0.7-0.49	0.5-0.29	0.3-0.01	<=0.11	**4**
SWM	5.12	**Percentage Coverage of wards under Door-To-Door Collection System (%)**	Tertiary	Non-spatial	100%	MPI (1.4.1)	PIB - Swacch Survekshan 2020 https://pib.gov.in/PressReleasePage.aspx?PRID=1598071	<60%	60%-67.1%	67.2%-74.3%	74.4%-81.5%	81.6%-88.7%	88.8%-95.9%	>=96%	**6**

[3] Mysuru has remediated the smaller landfill sites. but the remediation project of major legacy landfill site at Vidyaranyapuram is under tendering process.
[4] Mysuru doesn't have any facility to handle hazardous waste.

							6. TRANSPORTATION							
							7 Point Scoring Range							
Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	City Score
TR	6.1	Proportion of population with access to public transport with in 500m (%)	Primary	Spatial	94%	GPSC	SLB in Urban Transport, pg no: 12 http://mohua.gov.in/upload/uploadfiles/files/Voulmel_Methodologyreport_final03.pdf	<60%	60%-63.9%	64%-67.9%	68%-71.9%	72%-75.9%	76%-79.9%	>=80%	6
TR	6.2	Kilometres of bicycle path per 100,000 population (km)	Primary	Non-spatial	0.94	GPSC	Green cities programme methodology, pg no: 80 https://www.ebrd.com/documents/technical-cooporation/green-city-action-plan-in-tirana.pdf	<15 km	15-16.9 km	17-18.9 km	19-20.9 km	21-22.9 km	23-24.9 km	>=25 km	0
TR	6.3	Percentage of major roads covered with footpath (footpath wider than 1.2 meters) within the city (%)	Primary	Non-spatial	70%	GPSC	Urban transportation SLB 2B, pg no: 68 https://smartnet.niua.org/sites/default/files/resources/SLB%202B.pdf	<50%	50%-54.9%	55%-59.9%	60%-64.9%	65%-69.9%	70%-74.9%	>=75%	5
TR	6.4	Rate of increase in public transportation ridership (%)	Primary	Non-spatial	Data not available	Expert recommended	NA	Negative year on year ridership change	NA	NA	No change in ridership	NA	NA	Positive year on year ridership change	-
TR	6.5	Percentage of shared vehicles that operate on clean fuels like CNG, LPG, biofuels or are hybrid or electric vehicles (%)	Primary	Non-spatial	0%	CSCAF (4.3: Indicator 1)	Climate Smart Cities Assessment Framework 2.0, Pg. 36 https://www.niua.org/csc/assets/pdf/CSCAF_2_Booklet.pdf	<5%	5%-8.9%	9%-12.9%	13%-16.9%	17%-20.9%	21%-24.9%	>=25%	0
TR	6.6	Road density (km/sqkm)	Primary	Non-spatial	20.81	MPI (1.6.4)	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
TR	6.7	Average travel speed in major roads of the city (kmph)	Secondary	Non-spatial	Data not available	GPSC	SLB in Urban Transport, pg. no: 29 http://mohua.gov.in/upload/uploadfiles/files/Voulmel_Methodologyreport_final03.pdf	<16 kmph	16-16.7 kmph	16.8-17.5 kmph	17.6-18.3 kmph	18.4-19.1 kmph	19.2-19.9 kmph	>=20 kmph	-
TR	6.8	Percentage share of NMT in commuting (cycling and walking) (%)	Secondary	Non-spatial	Data not available	Expert recommended	UNCRD Mobility and NMT in Sustainable Urban Transport Development, Pg. 23 https://www.uncrd.or.jp/content/documents/6988Background%20Paper%20for%20EST%20Plenary%20Session%2	<15%	15%-18.5%	18.6%-22.1%	22.2%-25.7%	25.8%-29.3%	29.4%-32.9%	>=33%	-

										6. TRANSPORTATION					

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
							05-11th%20Regiona%20EST%20Forum.pdf								
TR	6.9	Street intersection density (intersections/sqkm)	Secondary	Non-spatial	410.15	CPI (5.1)	Economic Foundations for Sustainable Urbanization, UN-Habitat, Pg 37 https://unhabitat.org/sites/default/files/download-manager-files/3PA_Second%20Edition_ForWeb.pdf	Less than 75 intersections	NA	NA	Between 75 and 100 intersections	NA	NA	Greater than 100 intersections	6
TR	6.10	Kilometres of road with public transit per 100,000 population (km)	Secondary	Non-spatial	184.77	GPSC	Green cities programme methodology, pg no: 80 https://www.ebrd.com/documents/technical-cooporation/green-city-action-plan-in-tirana.pdf	Less than 10 km	NA	NA	Between 10km and 40 km	NA	NA	Greater than 40 km	6
TR	6.11	Fatal and serious injuries in road accidents per lakh population (number)	Secondary	Non-spatial	81.62	GPSC	SLB in Urban Transport, pg : 32 (http://mohua.gov.in/upload/uploadfiles/files/Voulmel_Methodologyreport_final03.pdf)	>6	6-4.7	4.8-3.5	3.6-2.3	2.4-1.1	1.2--0.1	0	0
TR	6.12	Accessibility of differently abled groups to Public Buses (%)	Secondary	Non-spatial	14%	Expert recommended	SLB in Urban Transport, pg : 26 (http://mohua.gov.in/upload/uploadfiles/files/Voulmel_Methodologyreport_final03.pdf)	<25%	25%-34.9%	35%-44.9%	45%-54.9%	55%-64.9%	65%-74.9%	>=75%	0
TR	6.13	Workplace accessibility within 30 minutes of transit (%)	Tertiary; Aspirational	Spatial	Data not available	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
TR	6.14	Percentage of total area of ULB allocated to streets (%)	Tertiary	Non-spatial	18%	CPI (5.3)	Economic Foundations for Sustainable Urbanization, UN-Habitat, Pg 74 https://unhabitat.org/sites/default/files/download-manager-files/3PA_Second%20Edition_ForWeb.pdf	<15%	15%-17.9%	18%-20.9%	21%-23.9%	24%-26.9%	27%-29.9%	>=30%	2

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7. SOCIAL FACILITIES AND SERVICES

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
SCL	7.1	Percentage of population within 800m distance to healthcare facilities (public/private) (%)	Primary	Spatial	91%	GPSC	URDPFI, Vol 1, Pg. 356 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I.pdf	<80%	80%-82.9%	83%-85.9%	86%-88.9%	89%-91.9%	92%-94.9%	>=95%	4
SCL	7.2	Percentage of females of ages 7 and above who are literate (%)	Primary	Non-spatial	85%	GPSC	NSS 75th round social consumption on education report Year: 2017-18 Page 52 of 1504 http://mospi.nic.in/sites/default/files/publication_reports/Report_585_75th_round_Education_final_1507_0.pdf	<55%	55%-63.9%	64%-72.9%	73%-81.9%	82%-90.9%	91%-99.9%	100%	4
SCL	7.3	Percentage of population within 800m distance to primary/secondary schools (public/private) (%)	Primary	Spatial	65%	MDPI (2.4)	URDPFI, Vol I, pg. 357 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I.pdf	<80%	80%-82.9%	83%-85.9%	86%-88.9%	89%-91.9%	92%-94.9%	>=95%	0
SCL	7.4	Change in decadal population growth rate (1991-2001 and 2001-2011) (%)	Secondary	Non-spatial	-11%	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
SCL	7.5	City Level Dependency Ratio (%)	Secondary	Non-spatial	50%	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
SCL	7.6	Under-five mortality rate per 1000 births (number)	Secondary	Non-spatial	Data requested	GPSC	THE 2030 AGENDA SDG Goal 3.3, Pg. 20 (https://sustainabledevelopment.un.org/content/documents/21252030%20Agenda%20for%20Sustainable%20Development%20web.pdf) (https://www.niti.gov.in/niti/content/under-5-mortality-rate-u-5mr-1000-live-births) World Bank database (https://data.worldbank.org/indicator/SH.DYN.MORT?locations=IN)	>47.5	47.5-42.9	43-38.4	38.5-33.9	34-29.4	29.5-24.9	<=25	-
SCL	7.7	Bed density in public and private hospitals (Hospital beds per 10,000 residents) (number)	Secondary	Non-spatial	Data requested	ESCI (Q.2)	EoL, Section 1.2.4, Pg. 45 https://smartnet.niua.org/eol19/pdf/EOL-2019-Completed-Version.pdf	<15	15-16.9	17-18.9	19-20.9	21-22.9	23-24.9	>=25	-

7. SOCIAL FACILITIES AND SERVICES

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	City Score
											7 Point Scoring Range				
SCL	7.8	Percentage reduction in prevalence of vector borne diseases(malaria, dengue) over the previous year (%)	Secondary	Non-spatial	Data requested	Expert recommended	https://www.who.int/docs/default-source/searo/india/health-topic-pdf/vbd-fact-sheets.pdf?sfvrsn=c1908b04_2#:~:text=Important%20vector%2Dborne%20disease%20for,Family%20Welfare%2C%20Government%20of%20India https://www.intechopen.com/books/public-health-in-developing-countries-challenges-and-opportunities/innovations-in-vector-borne-disease-control-in-india https://nvbdcp.gov.in/index.php?lang=1&level=1&sublinkid=5776&lid=3690 https://main.mohfw.gov.in/sites/default/files/5201617.pdf	<25%	25%-29.9%	30%-34.9%	35%-39.9%	40%-44.9%	45%-49.9%	>=50%	-
SCL	7.9	Percentage reduction in prevalence of waterborne diseases (Diarrhoea, typhoid) over the previous year (%)	Secondary	Non-spatial	Data requested	Expert recommended	https://www.who.int/cholera/publications/global-roadmap.pdf	<5%	5%-7.9%	8%-10.9%	11%-13.9%	14%-16.9%	17%-19.9%	>=20%	-
SCL	7.10	Percentage of schools with Access to Digital Education (%)	Secondary; Aspirational	Non-spatial	Data requested	EOLI (1.1.7)	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
SCL	7.11	Percentage of mobile network, by 3G and 4G technology subscriptions (%)	Tertiary	Non-spatial	Data not available	GPSC	NA	<80%	80%-82.9%	83%-85.9%	86%-88.9%	89%-91.9%	92%-94.9%	>=95%	-

8. ENVIRONMENT AND ECOLOGY

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	City Score
											7 Point Scoring Range				
ENV	8.1	Clean Air Action Plan (Planning and Implementation)	Primary	Non-Spatial	No Air Pollutant Monitoring Clean Air Action	CSCAF (4.3: Indicator 5)	Climate Smart City Assessment Framework, Pg. 41-42 https://csc.urban-industrial.in/hrdpmp/ige	No Air Pollutant Monitoring Clean Air Action	NA	NA	Clean Air Action Plan and Pollutants Source	NA	NA	Assessing impacts of Clean Air Action Plan	0

8. ENVIRONMENT AND ECOLOGY															
Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
					Plan in the city		p-uid/content/e5170/e6258/e10222/e10224/CSCAF_2_Booklet.pdf	Plan in the city			Identification			implementation	
ENV	8.2	Existence of a GHG emissions measurement system with a monitoring system (Y/N)	Primary; Aspirational	Non-Spatial	No	GPSC	NA	No	NA	NA	NA	NA	NA	Yes	0
ENV	8.3	Total annual GHG emissions (MtCO2e)	Primary; Aspirational	Non-Spatial	1556146	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
ENV	8.4	Proportion of Tree Cover to the total ULB area(%)	Primary	Spatial	Data requested	EOLI (3.1.2)	National Institute of Environmental Studies (NIES) http://cdn.narendramodi.in/ebooks/other-ebooks1/tree_cover_in_urban_area/files/assets/basic-html/index.html#22	<5%	5%-5.9%	6%-6.9%	7%-7.9%	8%-8.9%	9%-9.9%	>=10%	-
ENV	8.5	Extent to which city is acting for protection, conservation and management of urban biodiversity	Primary	Non-Spatial	No action initiated	CSCAF (4.2: Indicator 3)	Climate Smart City Assessment Framework, pg. 30-31 https://csc.urban-industrial.in/hrdpmp/igep-uid/content/e5170/e6258/e10222/e10224/CSCAF_2_Booklet.pdf	No action initiated	NA	NA	NA	NA	NA	Implementation of actions	0
ENV	8.6	Number of structural and financial incentives for green buildings implemented (number)	Primary	Non-Spatial	One or two incentives	EOLI (3.2.2)	Government Incentives to IGBC-rated Green Building Projects https://igbc.in/igbc/redirectHtml.htm?redVal=showGovtIncentivesnosign#:~:text=Some%20of%20the%20Central%20and,to%20IGBCs'%20Green%20Rating%20Systems.&text=The%20Ministry%20of%20Environment%2C%20Forest,Precertified%2F%20Provisionally%20Certified%20by%20IGBC	No incentives	NA	NA	One or two incentives	NA	NA	All three incentives	3
ENV	8.7	Annual mean Air Quality Index(AQI) (number)	Secondary	Non-Spatial	60	EOLI (3.1.5)	NA	Greater than 300	NA	NA	Between 101 and 300	NA	NA	Less than 100	6
ENV	8.8	Annual CO2 equivalent (GHG) emissions per capita (MtCO2e/capita)	Secondary; Aspirational	Non-Spatial	1.44	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA

8. ENVIRONMENT AND ECOLOGY

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
ENV	8.9	Annual CO2 equivalent emissions from the transportation sector (MtCO2e)	Secondary; Aspirational	Non-Spatial	Data not available	Expert Recommended	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
ENV	8.10	Biochemical Oxygen Demand 3 day, 270C (mg/l)	Secondary	Non-Spatial	Data to be collected	Expert Recommended	https://pib.gov.in/PressReleasePage.aspx?PRID=1602631	Greater than 6 mg/l	NA	NA	Between 3 and 6 mg/l	NA	NA	Less than 3 mg/l	-
ENV	8.11	Area under ULB covered by trees per inhabitant (sqm per person)	Secondary	Non-Spatial	Data requested	Expert Recommended	National Institute of Environmental Studies (NIES) https://cdn.narendramodi.in/ebooks/other-ebooks1/tree_cover_in_urban_area/files/assets/basic-html/page22.html	Less than 10 sqm	NA	NA	Between 10 sqm and 15 sqm	NA	NA	Greater than 15 sqm	-
ENV	8.12	Is there a land use plan that includes zoning with environmental protection and preservation zones? (Y/N)	Secondary	Non-spatial	Yes	GPSC	NA	No	NA	NA	NA	NA	NA	Yes	6
ENV	8.13	Annual mean levels of PM10 (µg/m3)	Tertiary	Non-spatial	30.02	NIF (11.6.2)	Revised National Ambient Air Quality Standards, Pg 1-2 https://cpcb.nic.in/displaypdf.php?id=aG9tZS9haXItcG9sbHV0aW9uL1JIY3ZlZC1OYXRpb25hbC1OYWGY5wZGY= WHO: https://www.who.int/news-room/fact-sheets/detail/ambient-(outdoor)-air-quality-and-health	Greater than 60 µg/m3	NA	NA	Between 60 µg/m3 and 20 µg/m3	NA	NA	Less than 20 µg/m3	3
ENV	8.14	Annual mean levels of PM2.5 (µg/m3)	Tertiary	Non-spatial	59.11	NIF (11.6.2)	Revised National Ambient Air Quality Standards, Pg 1-2 https://cpcb.nic.in/displaypdf.php?id=aG9tZS9haXItcG9sbHV0aW9uL1JIY3ZlZC1OYXRpb25hbC1OYWGY5wZGY= WHO: https://www.who.int/news-room/fact-sheets/detail/ambient-(outdoor)-air-quality-and-health	Greater than 40 µg/m3	NA	NA	Between 40 µg/m3 and 10 µg/m3	NA	NA	Less than 10 µg/m3	0
ENV	8.15	Annual concentration of NO2 (µg/m3)	Tertiary	Non-spatial	6.27	GPSC	Revised National Ambient Air Quality Standards, pg. 1 https://cpcb.nic.in/displa	Greater than 80 µg/m3	NA	NA	Between 80 µg/m3 and 40 µg/m3	NA	NA	Less than 40 µg/m3	6

8. ENVIRONMENT AND ECOLOGY

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	City Score
							ypdf.php?id=aG9tZS9h aXItcG9sbHV0aW9uL1Jl Y3ZlZC1OYXRpb25hbC 5wZGY= WHO: https://www.who.int/ne ws-room/fact- sheets/detail/ambient- (outdoor)-air-quality- and-health								
ENV	8.16	**Average daily concentration of SO2 (µg/m3)**	Tertiary	Non-spatial	3.38	GPSC	Revised National Ambient Air Quality Standards, pg. 1 https://cpcb.nic.in/displa ypdf.php?id=aG9tZS9h aXItcG9sbHV0aW9uL1Jl Y3ZlZC1OYXRpb25hbC 5wZGY= WHO: https://www.who.int/ne ws-room/fact- sheets/detail/ambient- (outdoor)-air-quality- and-health	Greater than 80 µg/m3	NA	NA	Between 80 µg/m3 and 20 µg/m3	NA	NA	Less than 20 µg/m3	6
ENV	8.17	**Total annual methane emissions (MtCO2e)**	Tertiary; Aspirational	Non-spatial	Data not available	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
ENV	8.18	**Existence, monitoring and enforcement of regulations on noise pollution (Y/N)**	Tertiary	Non-spatial	No	ESCI (G.1)	NA	No	NA	NA	NA	NA	NA	Yes	0

9. CLEAN ENERGY

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	City Score
CE	9.1	**Percentage of the city's households using LPG/PNG for cooking (%)s**	Primary	Non-spatial	Data requested	EOLI (3.1.3)	Drinking water, Sanitation, Hygiene & Housing Conditions in India, Pg 195 http://mospi.nic.in/sites/ default/files/NSS7612d ws/Report_584_final.pd f	<67%	67%-73.5%	73.6%-80.1%	80.2%-86.7%	86.8%-93.3%	93.4%-99.9%	100%	-
CE	9.2	**Percentage of total electrical energy in the city derived from renewable sources (%)**	Primary	Non-spatial	38.40%	CSCAF (4.1: Indicator 2)	Renewable energy consumption - The World Bank (% of total final energy	<5%	5%-6.9%	7%-8.9%	9%-10.9%	11%-12.9%	13%-14.9%	>=15%	6

9. CLEAN ENERGY															

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
							consumption) https://data.worldbank.org/indicator/EG.FEC.RNEW.ZS								
CE	9.3	Proportion of population in the city who have access to renewable energy (%)s	Primary; Aspirational	Non-spatial	Data not available	GPSC	Population with primary reliance on clean fuels and technologies Data by country - World Health Organisation https://apps.who.int/gho/data/view.main.SDGFUELS712v	<10%	10%-22.9%	23%-35.9%	36%-48.9%	49%-61.9%	62%-74.9%	>=75%	-
CE	9.4	Percentage of energy-efficient street lighting in the city (%)	Primary	Non-spatial	16%	CSCAF (4.1: Indicator 1)	Street Light National Programme (SLNP), GoI https://slnp.eeslindia.org/ https://vikaspedia.in/energy/policy-support/energy-efficiency/street-light-national-programme#:~:text=Street%20Light%20National%20Programme%20is,energy%20efficiency%20in%20the%20country.&text=The%20National%20Programme%20has%20been,with%20energy%20efficient%20LED%20lights	<25%	25%-39.9%	40%-54.9%	55%-69.9%	70%-84.9%	85%-99.9%	100%	0
CE	9.5	Energy use per capita (kWh)	Primary	Non-spatial	884.04	Expert Recommended	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	-
CE	9.6	Percentage of the city's households with an authorized connection to electrical energy (%)	Secondary	Non-spatial	Data requested	EOLI (1.3.1)	Access to Electricity - Urban, The World Bank https://data.worldbank.org/indicator/EG.ELC.ACCS.UR.ZS	<99.25%	99.25%-99.3%	99.4%-99.45%	99.55%-99.6%	99.7%-99.75%	99.85%-99.9%	100%	-
CE	9.7	Do existing building codes consider eco-friendly techniques and/or the use of local/renewable material? (Y/N)	Secondary	Non-spatial	Yes	CityRAP	NA	No	NA	NA	NA	NA	NA	Yes	6
CE	9.8	System Average Interruption Frequency Index (SAIFI) (number)s	Tertiary	Non-spatial	Data not available	Expert Recommended	NA	>73.5	73.5-58.9	59-44.4	44.5-29.9	30-15.4	15.5-0.9	<=1	-

							10.		**DISASTER RISK MANAGEMENT**						
							7 Point Scoring Range								
Code	**Number**	**Indicator**	**Primary/ Secondary/ Tertiary; Aspirational**	**Type of Indicator**	**City Indicator Value**	**Source Reference Framework**	**Source of Threshold / National Average / Benchmark**	**0** (Very low performance)	**1** (Low performance)	**2** (Lower medium performance)	**3** (Medium performance)	**4** (Upper medium performance)	**5** (High performance)	**6** (Excellent performance)	**City Score**
DRM	10.1	Presence of City Disaster Management Plan prepared / updated in last five years (Y/N)	Primary	Non-spatial	No Plan	GPSC	NA	No Plan	NA	NA	Plan prepared before year 2016	NA	NA	Plan prepared after year 2016	0
DRM	10.2	Existence of hazard vulnerability maps/risk maps (at city level) prepared / updated in the last five years for the main hazards threatening the city (Y/N)	Primary	Non-spatial	Maps not prepared	GPSC	NA	Maps not prepared	NA	NA	Maps prepared / updated prior to year 2016	NA	NA	Maps prepared / updated in or after year 2016	0
DRM	10.3	Percentage of households at risk due to placement in areas of non-mitigable risk within the ULB (%)	Primary	Non-spatial	Data not available	ESCI (H.2)	NA	>20%	20%-17.9%	18%-15.9%	16%-13.9%	14%-11.9%	12%-9.9%	<=10%	-
DRM	10.4	Percentage of buildings within 4km distance to fire service facility (%)	Primary	Spatial	Data requested	Expert recommended	URDPFI, Vol 1, Pg 366 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I.pdf	<70%	70%-75.9%	76%-81.9%	82%-87.9%	88%-93.9%	94%-99.9%	100%	-
DRM	10.5	Presence of hazard early warning systems linked with command control system	Secondary	Non-Spatial	Presence of hazard early warning system but no linkage with ULB Command Control system	Expert recommended	NA	Absence of hazard early warning system	NA	NA	Presence of hazard early warning system but no linkage with ULB Command Control system	NA	NA	Presence of hazard early warning system linked to ULB command control system	3
DRM	10.6	Existence of urban flood / water stagnation risk assessment and management plan	Secondary	Non-spatial	City has not conducted urban flood / water stagnation risk assessment	CSCAF (4.4: Indicator 4)	NA	City has not conducted urban flood / water stagnation risk assessment	NA	NA	City has conducted rapid / detailed flood risk assessment older than five years.	NA	NA	City has conducted rapid / detailed flood risk assessment in the last five years	0

							11.		**GOVERNANCE AND DATA MANAGEMENT**						
							7 Point Scoring Range								
Code	**Number**	**Indicator**	**Primary/ Secondary/ Tertiary; Aspirational**	**Type of Indicator**	**City Indicator Value**	**Source Reference Framework**	**Source of Threshold / National Average / Benchmark**	**0** (Very low performance)	**1** (Low performance)	**2** (Lower medium performance)	**3** (Medium performance)	**4** (Upper medium performance)	**5** (High performance)	**6** (Excellent performance)	**City Score**
GOV	11.1	Number of planners per capita (number)	Primary	Non-spatial	0.15	GPSC	URDPFI, Vol I, pg. 105 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%2	<0.5	0.5-0.59	0.6-0.69	0.7-0.79	0.8-0.89	0.9-0.99	>=1	0

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11.   GOVERNANCE AND DATA MANAGEMENT

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
							0Vol%20I.pdf URDPFI, Vol I, pg. 315 http://mohua.gov.in/upl oad/uploadfiles/files/UR DPFI%20Guidelines%2 0Vol%20I.pdf								
GOV	11.2	Years since enforced master plan/development plan was last reviewed and updated (number of years)	Primary	Non-spatial	8	GPSC	URDPFI, Vol I, pg. 06 http://mohua.gov.in/upl oad/uploadfiles/files/UR DPFI%20Guidelines%2 0Vol%20I.pdf	>10 years	10-8.9 years	9-7.9 years	8-6.9 years	7-5.9 years	6-4.9 years	<=5 years	3
GOV	11.3	Number of services being managed through command and control system in the ULB (number)	Primary	Non-spatial	2	MPI (3.1.2)	NA	<5	5-5.9	6-6.9	7-7.9	8-8.9	9-9.9	>=10	0
GOV	11.4	Number of functions being implemented by ULB out of 18 functions stipulated in the Twelfth schedule of Indian constitution (number)	Primary	Non-spatial	Between 15 and 17	Expert recommended	Twelfth Schedule (Article 243W) - 74 CAA; Pg. 10& 11 https://www.mhrd.gov.i n/sites/upload_files/mhr d/files/upload_documen t/74amend.pdf	Less than 15	NA	NA	Between 15 and 17	NA	NA	All 18	3
GOV	11.5	Existence of Geographic information System (GIS) based Master Plan for the city	Primary	Non-spatial	Presence of GIS base Master Plan prepared / updated before 2015	MPI (4.1.2)	AMRUT Reform Agenda - Formulation of GIS Based Master Plan for AMRUT Cities - http://amrut.gov.in/uplo ad/uploadfiles/files/AMR UT-SubScheme_Guideline(4).pdf	Absence of GIS base Master Plan	NA	NA	Presence of GIS base Master Plan prepared / updated before 2015	NA	NA	Presence of GIS base Master Plan prepared / updated after 2015	3
GOV	11.6	Environmental status report with action plans published by the ULB for the last three years	Secondary	Non-spatial	No	MPI (5.1.4)	NA	No	NA	NA	NA	NA	NA	Yes	0
GOV	11.7	Percentage of total staff trained during the year in any of the ULB functionary domains (%)	Secondary	Non-spatial	Data requested	MPI (5.4.3)	NA	<50%	50%-54.9%	55%-59.9%	60%-64.9%	65%-69.9%	70%-74.9%	>=75%	-
GOV	11.8	E-governance initiatives by the ULB: a. ULB website (Y/N) b. Online Public Service Delivery (Services provided online as a proportion of total Services provided) c. Online Public Service Delivery on Mobile (Services provided via mobile as a proportion of total Services provided) d. Online Grievance Redressal	Secondary	Non-spatial	5	MPI (3.1.1)	NA	Less than 2	NA	NA	Between 2 and 4	NA	NA	All 5	6

								11. GOVERNANCE AND DATA MANAGEMENT							
							7 Point Scoring Range								
Code	**Number**	**Indicator**	**Primary/ Secondary/ Tertiary; Aspirational**	**Type of Indicator**	**City Indicator Value**	**Source Reference Framework**	**Source of Threshold / National Average / Benchmark**	**0** (Very low performance)	**1** (Low performance)	**2** (Lower medium performance)	**3** (Medium performance)	**4** (Upper medium performance)	**5** (High performance)	**6** (Excellent performance)	**City Score**
		(number of grievances received online as a proportion of total grievances received) e. Online Grievance Redressal on Mobile (Services provided via mobile as a proportion of total Services provided)													
GOV	11.9	Local development control regulations and master plan / development plan are accessible completely through the web	Secondary	Non-spatial	Both available online	Expert recommended	NA	Both not available	NA	NA	One available online	NA	NA	Both available online	6
GOV	11.10	Existence of following stipulated committees in the ULB: 1) Municipal Committee/Council 2) Ward Committee 3) Metropolitan Planning Committee / District Planning Committee 4) Project Coordination /Monitoring Committee 5) Town Vending Committee (Street vendors) 6) Heritage Conservation Committee	Secondary	Non-spatial	6	Expert recommended	NA	Less than or equal to 3	NA	NA	Between 4 and 5	NA	NA	6	6
GOV	11.11	ULB's citizen charter and appeal mechanisms	Secondary	Non-spatial	Exist only offline	MPI (5.4.1)	NA	Doesn't exist	NA	NA	Exist only offline	NA	NA	Exists offline and online	3
GOV	11.12	Presence of City data officer (Y/N)	Secondary	Non-spatial	No	MPI (3.1.6)	NA	No	NA	NA	NA	NA	NA	Yes	0
GOV	11.13	Proportion of Women councillors in Municipal Council (%)	Tertiary	Non-spatial	49%	MPI (5.2.2)	74th Constitutional Amendment Act of India https://www.mhrd.gov.in/sites/upload_files/mhrd/files/upload_document/74amend.pdf	<33%	33%-36.3%	36.4%-39.7%	39.8%-43.1%	43.2%-46.5%	46.6%-49.9%	>=50%	3
GOV	11.14	Digital Governance: Presence on Open Data Portal	Tertiary	Non-spatial	No	MPI (3.1.8)	NA	No	NA	NA	NA	NA	NA	Yes	0

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12. FINANCE AND ECONOMY

Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
FIN	12.1	Credit rating of the ULB	Primary	Non-spatial	Between BBB and A	MPI (2.4.3)	GPSC, Pg 132 http://documents1.worldbank.org/curated/en/339851517836894370/pdf/123149-Urban-Sustainability-Framework.pdf	Lesser or equal to BBB	NA	NA	Between BBB and A	NA	NA	Greater or equal to AA	3
FIN	12.2	Total property tax collected as a percentage of total property tax billed in the same financial year (%)	Primary	Non-spatial	97%	MPI (2.1.5)	NA	<60%	60%-63.9%	64%-67.9%	68%-71.9%	72%-75.9%	76%-79.9%	>=80%	6
FIN	12.3	Financial dependency: Percentage of grants received from central and state governments to total revenue (%)	Primary	Non-spatial	59%	Expert Recommended	NA	>60%	60%-53.9%	54%-47.9%	48%-41.9%	42%-35.9%	36%-29.9%	<=30%	1
FIN	12.4	Growth rate of GDP per capita (%)	Primary; Aspirational	Non-spatial	Data not available	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
FIN	12.5	Change in Own Source Revenue (number of years with OSR > 20%)	Secondary	Non-spatial	5	Expert Recommended	GPSC, Pg 133 http://documents1.worldbank.org/curated/en/339851517836894370/pdf/123149-Urban-Sustainability-Framework.pdf	Greater than 20% in one year	NA	NA	Greater than 20% for more than 1 Year	NA	NA	Greater than 20% for more 3 years	6
FIN	12.6	Operating margin: Difference in revenue and expenditure in the financial year (INR in Lakhs)	Secondary	Non-spatial	-94.82	GPSC	GPSC, Pg 133 http://documents1.worldbank.org/curated/en/339851517836894370/pdf/123149-Urban-Sustainability-Framework.pdf	Deficit	NA	NA	NA	NA	NA	Surplus	0
FIN	12.7	Total cost of annual debt service as a percentage of expenditure (%)	Secondary	Non-spatial	Data not available	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
FIN	12.8	Percentage of debt/loans in overall budget allocation (%)	Secondary	Non-spatial	0%	Expert Recommended	NA	>70%	70%-61.9%	62%-53.9%	54%-45.9%	46%-37.9%	38%-29.9%	<=30%	6
FIN	12.9	Properties covered under the tax net expressed as percentage of total properties within the municipality (%)	Secondary	Non-spatial	Data requested	MPI (2.1.3)	NA	<85%	85%-87.7%	87.8%-90.5%	90.6%-93.3%	93.4%-96.1%	96.2%-98.9%	>=99%	-
FIN	12.10	Efficiency of Capital expenditure spending: Actual capital expenditure spent expressed as a percentage of the budgeted capital expenditure in the financial year (%)	Secondary	Non-spatial	78%	Expert Recommended	NA	<60%	60%-63.9%	64%-67.9%	68%-71.9%	72%-75.9%	76%-79.9%	>=80%	5

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12.		FINANCE AND ECONOMY													
Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
FIN	12.11	Cost Recovery in Water Supply: Total operating revenues expressed as a percentage of the total operating expenses incurred towards water supply services in the given financial year (%)	Secondary	Non-spatial	45%	Expert Recommended	NA	<30%	30%-37.9%	38%-45.9%	46%-53.9%	54%-61.9%	62%-69.9%	>=70%	2
FIN	12.12	Cost Recovery in Sanitation: Total operating revenues expressed as a percentage of the total operating expenses incurred towards sanitation services in the financial year (%)	Secondary	Non-spatial	91%	Expert Recommended	NA	<30%	30%-37.9%	38%-45.9%	46%-53.9%	54%-61.9%	62%-69.9%	>=70%	6
FIN	12.13	Cost Recovery in Solid Waste Management: Total operating revenues expressed as a percentage of the total operating expenses incurred towards solid waste management services in the financial year (%)	Secondary	Non-spatial	18%	Expert Recommended	NA	<30%	30%-37.9%	38%-45.9%	46%-53.9%	54%-61.9%	62%-69.9%	>=70%	0
FIN	12.14	Unemployment rate of persons of age 15 years and above (%)	Secondary	Non-spatial	Data not available	NIF (8.5.1)	Periodic Labour Force Survey (2017-18) Page 211 of 643 and Page 500 of 643 http://mospi.nic.in/sites/default/files/publication_reports/Annual%20Report%2C%20PLFS%202017-18_31052019.pdf?download=1	>14%	14%-11.9%	12%-9.9%	10%-7.9%	8%-5.9%	6%-3.9%	<=4%	-
FIN	12.15	Inequality Index based on Consumption Expenditure- Gini Coefficient (score)	Secondary	Non-spatial	Data not available	EOLI (2.3.1)	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
FIN	12.16	Percentage of workforce employed in the service sector (%)	Secondary; Aspirational	Non-satial	Data not available	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
FIN	12.17	Total capital expenditure as percentage of total expenditure (%)	Tertiary	Non-spatial	47%	MPI (2.2.3)	NA	<10%	10%-15.9%	16%-21.9%	22%-27.9%	28%-33.9%	34%-39.9%	>=40%	6
FIN	12.18	GDP density as a percentage of the built-up area of the local government (%)	Tertiary; Aspirational	Non-spatial	Data not available	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
FIN	12.19	Informal employment as percentage of total employment (%)	Tertiary; Aspirational	Non-spatial	Data not available	CPI (3.3)	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA

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