UN-HABITAT

Urban Sustainability Indicators Report (USIR)

—

VYASANAGAR

Prepared By: **Submitted to:**

UN⊕HABITAT
FOR A BETTER URBAN FUTURE

Version 2.0 MAY 2023

Version 1.0 APRIL 2022

Disclaimer

The designations employed and the presentation of the material in this report do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city, or area, or of its authorities, or concerning delimitations of its frontiers or boundaries, or regarding its economic system or degree of development. The analysis, conclusions and recommendations of this reports do not necessarily reflect the views of the United Nations Human Settlements Programme or its Governing Council.

The report is produced using data provided by the client and (or) an agency appointed or entrusted by the client for data collection. 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.

UN⊕HABITAT

Message from the Collectorate, Jajpur

Jajpur is the ancient capital city of Odisha and is home to several renowned heritage and cultural assets such as the Maa Biraja Temple, the Jagannath Temple and also the Buddhist Monasteries of Ratnagiri, Lalitgiri and Udaygiri. The district has nurtured several handicraft and art forms including the GI Tag Gopalpur Tussar weaving cluster, stone carving, and terracotta pottery. Jajpur's vision is to grow into a dynamic, sustainable, and economically vibrant district with a low-carbon footprint while respecting and encouraging these existing cultural strengths. To achieve this vision, it is critical to take a data-driven approach to strategically guide the development in an upcoming and highly ambitious district such as Jajpur.

I appreciate the efforts of UN-Habitat and the district team for jointly preparing the Urban Sustainability Indicators Report for Vyasanagar, developed under the project 'Pathway to Sustainable, Resilient, and Inclusive Development in Jajpur, Vyasanagar and Panasa Gram Panchayat' in Odisha. It is a comprehensive report which elaborates on the urban metrics through extensive spatial, quantitative, and qualitative data analysis needed for evidence-based planning and city management. It enables a granular understanding at neighbourhood level of Vyasanagar's strengths and weaknesses across 12 key urban development sectors that represent the primary urban planning and management functions of the urban local bodies.

This report shall be instrumental in identifying the critical diagnostic issues and priority areas where Vyasanagar needs to develop strategic projects and interventions for on-ground transformation. We extend our full support to the team as they progress towards the next stages of the project to collectively lay the foundations of a sustainable, resilient, and inclusive Vyasanagar.

c.s. Rathore

Chakravarti Singh Rathore, IAS
Collector and District Magistrate,
May 2023   Jajpur District-
755001
Government of Odisha

UN◉HABITAT   [3]

List of Acronyms

CSCAF	Climate Smart City Assessment Framework
KNDA	Kalinga Nagar Development Authority
EOLI	Ease of Living Index
ESCI	Emerging and Sustainable Cities Initiative
GDP	Gross Domestic Product
GHG	Green House Gas
GIS	Geographical Information System
GPSC	Global Platform for Sustainable Cities
MoHUA	Ministry of Housing and Urban Affairs
MPI	Municipal Performance Index
SDG	Sustainable Development Goals
SLB	Service Level Benchmarking
SS 2020	Swachh Survekshan 2020
SWM	Solid Waste Management
UN-Habitat	United Nations Human Settlements Programme
URDPFI	Urban and Regional Development Plans Formulation and Implementation
USAF	Urban Sustainability Assessment Framework
USIR	Urban Sustainability Indicators Report
ODF	Open defecation free

UN⊕HABITAT

Table of Contents

List of Figures

List of Tables

UN⊕HABITAT

Table 5.2: Lowest performing primary indicators.

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

Vyasanagar town is located in Jajpur district of Odisha, administered by Vyasanagar Municipality which was established in 1963. Vyasanagar is located within an extremely important (resources) region of Odisha, with industrial area of Rourkela (Banai-Cuttack-Paradeep) on one side and the mineral belt of Tomka – Daitary - Sukinda on the other. It is home to an industrial belt and hosts several steel companies including Neelachal Ispat Nigam Limited, MESCO, Tata Steel, among others. Vyasanagar is well connected with other states through National Highway-53, and State Highyway-20. The East- Coast railway line passes through the town linking Vyasanagar to most major cities and towns in Odisha. The nearest airport is in Bhubaneswar, about 120 km from the town. Vyasanagar Municipality is historically significant due to Vyasa Sarovar, which is located about 2 kilometres from the city centre and it was the site where Duryodhana, the eldest of the Kauravas, hid in '*Gupta Ganga',* located in the Vyasa Sarovar Peetha, during Mahabharata.

As per Census 2011, the population of Vyasanagar Municipality was 0.48 lakh. The municipal jurisdiction is divided into 26 wards which cover an area of 34.4 sq.km. The average population density of the town is 45 persons per hectare (PPH), ward number 2, 25, 17, 15 and 9 are observed to have more than 50 persons per hectare (PPH).

Some of the major urban management initiatives of the Vyasanagar Municipality includes the re-development of Vyasa Sarovar project, remediation of existing landfill sites in the city into ecological park using bio-mining, the installation of sculptures and murals made of scrap material at prominent locations, and the face-lifting of all public and community toilets. Vyasanagar has successfully accomplished its sanitation and solid waste management goals, including the ODF++ status. The entire value chain of solid waste management has been managed by women collectives known as Swachh Saathis.

Vyasanagar Municipality falls within the Kalinga Nagar Development Authority (KNDA). The current GIS/RS-based Master Plan/Comprehensive Development Plan for Kalinga Nagar Development Authority Area (KNDA) was notified in 2015 for the horizon year 2030.

This Urban Sustainability Indicators Report for Vyasanagar will support short- and long-term policy and programmatic prioritization by providing spatial and quantitative evidence across 12 sectors and 131 indicators. Vyasanagar Urban Sustainability Indicator Report records the municipality's successes and gaps in addressing inclusion, resilience etc. The evidence base can strengthen day to day management, planning 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.

UN⊕HABITAT

Figure 2.1: Urban Sectors

3. Indicator Categories and Scoring

There are 131 indicators in USAF which are formulated using 204 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

UN◉HABITAT

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 Vyasanagar, **85%** of all indicators (113 out of 131 indicators) have been collected (refer figure 4.1). Ninety-three percent of primary and eighty five percent of secondary indicators have been collected.

Figure 4.1: Indicator collection status for Vyasanagar

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.

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 6.1.

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 the remaining 4 indicators related to public spaces. Out of 9 indicators, 5 are primary indicators. Data has been collected for **8** indicators.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
UPS	1.1	Percentage of city roads covered with street lighting (%)	Primary	88%	2
UPS	1.2	Percentage change in the built-up area per capita in the city in between year 2000 and year 2014 (%)	Primary	-4%	NA
UPS	1.3	Percentage of agriculture use area proposed for future developable uses in the Master Development Plan (%)	Primary	100%	NA
UPS	1.4	Percentage of population within 500m distance to public park/open space (%)	Primary	41%	0
UPS	1.5	Open space (includes recreational space, organised green, other common open spaces) per capita (sqm/person)	Primary	45.1	6
UPS	1.6	Percentage share of pedestrian fatalities in total fatalities (motorized/non-motorized transport) in road accident during a year (%)	Secondary	73%	0

Commented [MS1]: how is this possible Shweta?? the BM is 0 for this indicator.

Commented [SS2R1]: checked

UN@HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
UPS	1.7	Percentage of recreational and open space (includes stadiums, theme parks, playgrounds, maidan) of total developable area (%)	Secondary	2%	0
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	3.86	NA
UPS		**Overall Sector Average Score**			**2**

Table 4.1: Urban Form, Public Space and Safety

4.2. Housing and Property

There are **5** indicators in this sector related to the slum settlements, housing demand in the city. Data has been collected for **2** indicators.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
HP	2.1	Percentage of urban households living in slums/squatter settlements (%)	Primary	42%	0
HP	2.2	Percentage of city area under slums/squatter settlements (%)	Primary	10%	NA

UN⊕HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
HP	2.3	Percentage of owner-occupied housing units to total housing units (%)	Secondary	-	-
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	-	-
HP		Overall Sector Average Score			0

Table 4.2: Housing and Property

4.3. Water

There are **6** indicators to assess water resource management including service coverage and efficiency in providing households with piped connection, metered connections, and measuring the extent of non-revenue water in the city. Out of 6 indicators, 4 are primary indicators. Data has been collected for all **6** indicators.

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
WTR	3.1	Percentage of households with piped connection (%)	Primary	74%	4
WTR	3.2	Percentage of water samples in a year that comply with national	Primary	83%	0

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
		potable water quality standards (%)			
WTR	3.3	Existence of water resources assessment and management Plan prepared in the last five years.	Primary	No water resource assessment has been carried out	0
WTR	3.4	Extent of Non-Revenue Water (%)	Primary	0%	6
WTR	3.5	Water supply per capita (LPCD)	Secondary	147	5
WTR	3.6	Extent of metering of water supply connections (%)	Secondary	0%	0
WTR		**Overall Sector Average Score**			3

Table 4.3: Water

4.4. Sanitation

For assessing performance of city 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. Out of 9 indicators, 5 are primary indicators. Data has been collected for all **9** indicators.

UN⊕HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
SAN	4.1	Percentage of properties in the ULB connected to sewerage network (%)	Primary	0%	0
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	0%[1]	0
SAN	4.4	Percentage of wastewater samples that passed the specified secondary treatment standards from the total samples collected in a year (%)	Primary	0%	0
SAN	4.5	Percentage of wastewater received at the treatment plant that is recycled or reused after appropriate treatment for various purposes (%)	Primary	0%	0
SAN	4.6	Percentage of city sewage that is treated in	Secondary	0%	0

---

[1] Vyasanagar Municipality does not have an operational STP.

UN◉HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
		a sewage treatment plant (%)			
SAN	4.7	Percentage of industries complying with wastewater treatment as per CPCB norms (%)	Secondary	0%	0
SAN	4.8	Existence of FSSM Action plan or notified San-benchmarks, byelaws/ guidelines/ policy notes by the ULB/Development Authority	Secondary	No guideline/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**			1

Table 4.4: Sanitation

4.5. Solid Waste Management

There are **12** indicators in the framework to assess the existing situation 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. Out of 12 indicators, 5 are primary indicators. Data has been collected for all **12** indicators.

UN⊕HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
SWM	5.1	Percentage of city's wet waste processed (%)	Primary	100%	6
SWM	5.2	Percentage of the city's dry waste that is separated and classified for recycling/material recovery (%)	Primary	100%	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 of in open dumps / controlled dumps, water bodies / is burnt (%)	Primary	0%	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
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)	Secondary	3	6

UN⊕HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
		iii) Attendance of Sanitation Staff			
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	0%	0
SWM	5.10	Percentage of hazardous waste processed (%)	Secondary	100%	6
SWM	5.11	Total solid waste generation per capita per day (kg/capita/day)	Tertiary	0.08	6
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 **15** indicators in the transportation sector informing about the status of public transport coverage, quality, safety features, non-motorized transport and investment in environmentally friendly technologies and infrastructure by the ULB. Out of 15 indicators, 6 are primary indicators. Data has been collected for **12** indicators.

UN⊕HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
TR	6.1	Percentage of population within 500m distance to public transport stops (%)	Primary	11%	0
TR	6.2	Kilometres of bicycle path per 100,000 population (km)	Primary	0	0
TR	6.3	Percentage of major roads covered with footpath (footpath wider than 1.2 meters) within the city (%)	Primary	0%	0
TR	6.4	Rate of increase in public transportation ridership (%)	Primary	-[2]	-
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/sq.km)	Primary	2.4	NA
TR	6.7	Average travel speed in major roads of the city (kmph)	Secondary	30	6
TR	6.8	Percentage share of NMT in commuting (cycling and walking) (%)	Secondary	-	-
TR	6.9	Street intersection density (intersections/ sq.kms)	Secondary	0.61	0

---

[2] Vyasanagar Municipality does not have a formal public transport system.

UN⊛HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
TR	6.10	Kilometres of road with public transit per 100,000 population (km)	Secondary	17	3
TR	6.11	Fatal and serious injuries in road accidents per lakh population (number)	Secondary	68	0
TR	6.12	Accessibility of differently abled groups to Public Buses (%)	Secondary	0%	0
TR	6.13	Workplace accessibility within 30 minutes of transit (%)	Tertiary	100%	NA
TR	6.14	Percentage of total area of ULB allocated to streets (%)	Tertiary	1%	0
TR		**Overall Average Sector Score**			1

Table 4.6: Transportation

4.7. Social Facilities and Services

There are **11** indicators in the social facilities and services sector, out of which, 4 indicate about the demography, 5 are related to the health and 3 related to the situation of education in the city. Out of 11 indicators, 3 are primary indicators. Data has been collected for **9** indicators.

UN⊕HABITAT

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	39%[3]	0
SCL	7.2	Percentage of females of ages 7 and above who are literate (%)	Primary	68%	2
SCL	7.3	Percentage of population within 800m distance to primary/secondary schools (public/private) (%)	Primary	72%	0
SCL	7.4	Change in decadal population growth rate (1991-2001 and 2001-2011) (%)	Secondary	-14%	NA
SCL	7.5	City Level Dependency Ratio (%)	Secondary	-	NA
SCL	7.6	Under-five mortality rate per 1000 births (number)	Secondary	0%	6
SCL	7.7	Bed density in public and private hospitals (Hospital beds per 10,000 residents) (number)	Secondary	18	2
SCL	7.8	Percentage reduction in prevalence of vector borne	Secondary	56%	6

---

[3] The city's population is considered from Census 2011

UN@HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
		diseases (malaria, dengue) over the previous year (%)			
SCL	7.9	Percentage reduction in prevalence of waterborne diseases (Diarrhoea, typhoid) over the previous year (%)	Secondary	-60%	0
SCL	7.1	Percentage of schools with Access to Digital Education (%)	Secondary	62%	NA
SCL	7.11	Percentage of mobile network, by 3G and 4G technology subscriptions (%)	Tertiary	-	-
SCL		**Overall Sector Average Score**			2

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. Out of 18 indicators, 6 are primary indicators. Data has been collected for **13** indicators.

UN◉HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
ENV	8.1	Clean Air Action Plan (Planning and Implementation)	Primary	Assessing impacts of clean air action plan implementation	6
ENV	8.2	Existence of a GHG emissions measurement system with a monitoring system (Y/N)	Primary; Aspirational	Yes	6
ENV	8.3	Total annual GHG emissions (MtCO2e)	Primary; Aspirational	-	NA
ENV	8.4	Proportion of Tree Cover to the total ULB area (%)	Primary	2%	0
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	No incentives	0
ENV	8.7	Annual mean Air Quality Index (AQI) (number)	Secondary	106	3

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
ENV	8.8	Annual CO2 equivalent (GHG) emissions per capita (MtCO2e/capita)	Secondary; Aspirational	-	NA
ENV	8.9	Annual CO2 equivalent emissions from the transportation sector (MtCO2e)	Secondary; Aspirational	-	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	12.25	3
ENV	8.12	Is there a land use plan that includes zoning with environmental protection and preservation zones? (Y/N)	Secondary	No	0
ENV	8.13	Annual mean levels of PM10 (μg/m3)	Tertiary	109	0
ENV	8.14	Annual mean levels of PM2.5 (μg/m3)	Tertiary	54.9	0
ENV	8.15	Annual concentration of NO2 (μg/m3)	Tertiary	14.9	6

UN◉HABITAT

Code	No.	Indicator	Indicator Category	City Indicator Value	Indicator Performance
ENV	8.16	Average daily concentration of SO2 (μg/m3)	Tertiary	2	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	No	0
ENV	**Overall Sector Average Score**				2

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. Out of 8 indicators, 5 are primary indicators. Data has been collected for all **8** indicators.

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	85%	3
CE	9.2	Percentage of total electrical energy in the	Primary	0%	0

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
		city derived from renewable sources (%)			
CE	9.3	Proportion of population in the city who have access to renewable energy (%)	Primary; Aspirational	0%	0
CE	9.4	Percentage of energy-efficient street lighting in the city (%)	Primary	100%	6
CE	9.5	Energy use per capita (kWh)	Primary	50	NA
CE	9.6	Percentage of the city's households with an authorized connection to electrical energy (%)	Secondary	100%	6
CE	9.7	Do existing building codes consider eco-friendly techniques and/or the use of local/renewable material? (Y/N)	Secondary	No	0
CE	9.8	System Average Interruption Frequency Index (SAIFI) (number)	Tertiary	2	5
CE		**Overall Sector Average Score**			3

Table 4.9: Clean Energy

UN◉HABITAT

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). Out of 6 indicators, 4 are primary indicators. Data has been collected for all **6** indicators.

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	Plan prepared after year 2016	6
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 prepared/ updated prior to year 2016	3
DRM	10.3	Percentage of households at risk due to placement in areas of non-mitigable risk within the ULB (%)	Primary	2%	6
DRM	10.4	Percentage of buildings within 4km distance to fire service facility (%)	Primary	73%	1
DRM	10.5	Presence of hazard early warning systems linked	Secondary	Presence of hazard early warning system	3

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
		with command control system.		but no linkage with ULB	
DRM	10.6	Existence of urban flood / water stagnation risk assessment and management plan	Secondary	3	6
DRM		**Overall Sector Average Score**			**4**

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. Out of 14 indicators, 5 are primary indicators. Data has been collected for **13** indicators.

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
GOV	11.1	Number of planners per capita (number)	Primary	0	0
GOV	11.2	Years since enforced master plan/development plan was last reviewed and updated (number of years)	Primary	6	5
GOV	11.3	Number of services being managed through command-and-control system in the ULB (e.g.:	Primary	0	0

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
		SCADA, ICCC etc) (number)			
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/ updated before 2015	3
GOV	11.6	Environmental status report with action plans published by the ULB for the last three years	Secondary	Yes	6
GOV	11.7	Percentage of total staff trained during the year in any of the ULB functionary domains (%)	Secondary	13%	0

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
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	4	6
GOV	11.9	Local development control regulations and master plan / development plan are accessible completely through the web.	Secondary	Both available online	6

UN⊕HABITAT

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
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	4	3
GOV	11.11	ULB's citizen charter and appeal mechanisms	Secondary	Doesn't exist	0
GOV	11.12	Presence of City data officer (Y/N)	Secondary	Yes	6
GOV	11.13	Proportion of Women councillors in Municipal Council (%)	Tertiary	62%	6
GOV	11.14	Digital Governance: Presence on Open Data Portal	Tertiary	No	0
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. Out of 19 indicators, 4 are primary indicators. Data has been collected for **13** indicators.

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
FIN	12.1	Credit rating of the ULB	Primary	-	-
FIN	12.2	Total property tax collected as a percentage of total property tax billed in the same financial year (%)	Primary	36%	0
FIN	12.3	Financial dependency: Percentage of grants received from central and state governments to total revenue (%)	Primary	100%	0
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	0	0
FIN	12.6	Operating margin: Difference in revenue and expenditure in the financial year (INR in Lakhs)	Secondary	-21,35,45,205.0	0

Commented [MS3]: is it this low? can we verify again?

Commented [SS4R3]: The total amount of property tax collected in the financial year is significantly less than the amount of tax billed in the financial year. cross-checked with V(M)

UN⊕HABITAT

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
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
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	90%	6
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	-	-
FIN	12.12	Cost Recovery in Sanitation: Total operating revenues expressed as a percentage of the total operating expenses incurred towards sanitation	Secondary	10%	0

Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
		services in the financial year (%)			
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	10%	0
FIN	12.14	Unemployment rate of persons of age 15 years and above (%)	Secondary	5.2%	5
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	92%	NA
FIN	12.17	Total capital expenditure as percentage of total expenditure (%)	Tertiary	39%	5
FIN	12.18	GDP density as a percentage of the built-up area of the local government (%)	Tertiary	-	NA

UN⊕HABITAT

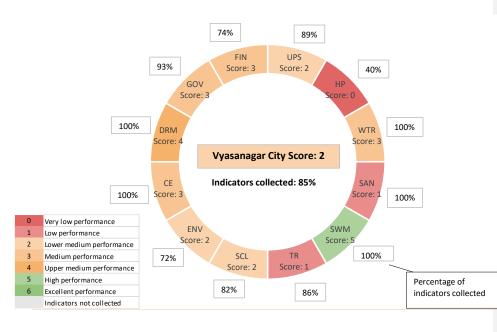| Code	Number	Indicator	Indicator Category	City Indicator Value	Indicator Performance
FIN	**12.19**	Informal employment as percentage of total employment (%)	Tertiary	81%	NA
FIN		**Overall Sector Average Score**			**3**

Table 4.12: Finance and Economy

5. Highlights and Way Forward

The overall average score of **Vyasanagar is 2 (two), which is 'Lower medium Performance'** with Sector 5 - Solid Waste Management (SWM) scored the highest and Sector – 4 Sanitation (SAN), Sector - 2 Housing and Property (HP) and Sector 6 – Transportation (TR) scored the lowest.

The average performance of each sector is represented using the 7-point colour gradient[4] is given in Fig 5.1

---

[4] It should be noted here that the performance of a sector may move in either direction if data points for more indicators were available.

Figure 5.1: Average performance and percentage of indicators collected for all sectors

Amongst all the sectors, the highest three performing primary indicators are enlisted in Table 5.1 and the lowest three indicators in Table 5.2.[5]

Code	Number	Indicators	Indicator Category	Benchmark	Indicator Value
SAN	4.2	Proportion of households having access to toilet facility (%)	Primary	100%	100%
SWM	5.1	Percentage of city's wet waste processed (%)	Primary	66%	100%

---

[5] 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.

UN⊕HABITAT

Code	Number	Indicators	Indicator Category	Benchmark	Indicator Value
DRM	10.1	Presence of City Disaster Management Plan prepared / updated in last five years (Y/N)	Primary	Plan prepared after year 2016	Plan prepared after year 2016

Table 5.1: Highest performing primary indicators

Code	Number	Indicator	Indicator Category	Benchmark	Indicator Value
WTR	3.2	Percentage of water samples in a year that comply with national potable water quality standards (%)	Primary	100%	83%
SAN	4.1	Percentage of properties in the ULB connected to sewerage network (%)	Primary	100%	0%
TR	6.3	Percentage of major roads covered with footpath (footpath wider than 1.2 meters) within the city (%)	Primary	75%	0%

Table 5.2: Lowest performing primary indicators

Vyasanagar 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, town planners, and urban practitioners to undertake evidence-based and spatially informed policy, regulatory, and granular development

decisions. USAF methodology is documented in detail in the USAF Report available with UN-Habitat.

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, Vyasanagar Municipality 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.

UN⊕HABITAT

6. Annexures

6.1. 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						
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**
UPS	1.1	**Percentage of city roads covered with street lighting (%)**	Primary	Non-spatial	**88%**	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%	2
UPS	1.2	**Percentage change in the built-up area per capita in the city in between year 2000 and year 2014 (%)**	Primary	Spatial	**-4%**	GPSC	[Descriptive Indicator]	NA[6]	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	**100%**	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	**41%**	NIF (11.7.1)	Source of distance of 500m: URDPFI, Vol 1, pg. 356 http://mohua.gov.in/upload/uploadfiles/files	<50%	50%-55.9%	56%-61.9%	62%-67.9%	68%-73.9%	74%-79.9%	>=80%	0

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

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	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)	
							/URDPFI%20Guidelines%20Vol%20I.pdf								
UPS	1.5	**Open space (includes recreational space, organised green, other common open spaces) per capita (sqm/person)**	Primary	Non-spatial	**45.11**	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	6
UPS	1.6	**Percentage share of pedestrian fatalities in total fatalities (motorized/non-motorized transport) in road accident during a year (%)**	Secondary	Non-spatial	**73%**	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_reports_previous_year/Table-1A.3_2019.pdf	>19.25%	19.25%-15.3%	15.4%-11.45%	11.55%-7.6%	7.7%-3.75%	3.85%--0.1%	0%	0
UPS	1.7	**Percentage of recreational and open space (includes stadiums, theme parks, playgrounds, maidan) of total developable area (%)**	Secondary	Non-spatial	**2%**	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%	0
UPS	1.8	**Rating of safety standards of the city**	Tertiary; Aspirational	Non-spatial	**Data not available**	EOLI (Perception Survey: 1.6)	Ease of living-Perception survey) (Pg. 34) https://smartnet.niua.o	Poor	NA	NA	Fair	NA	NA	Good	-

1. URBAN FORM, PUBLIC SPACE AND SAFETY

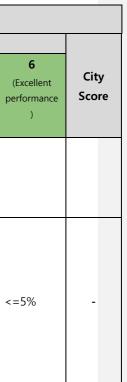| Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
							rg/eol19/pdf/EOL-2019-Completed-Version.pdf								
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	1.22	Expert recommended	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA

Note*: **-:** Not Collected / Not Available

2. HOUSING AND PROPERTY

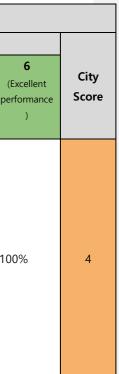| Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
HP	2.1	Percentage of urban households living in slums/squatter settlements (%)	Primary	Non-spatial	42%	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%	0
HP	2.2	Percentage of city area under slums/squatter settlements (%)	Primary	Non-spatial	10%	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	Data not available	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%	-
HP	2.4	Percentage of households spending greater than 30 percent of their income on accommodation expenses (%)	Tertiary	Non-spatial	Data not available	GPSC	Handbook of urban statistics 2019 pg. no: 170 http://mohua.gov.in/p	NA	NA	NA	NA	NA	NA	NA	NA

UN HABITAT

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)	
							df/5c80e2225a124Handbook%20of%20Urban%20Statistics%202019.pdf								
HP	2.5	**Percentage of households living in one room (%)**	Tertiary	Non-spatial	**Data not available**	CPI (1.5)	Handbook of urban statistics 2019 pg. no: 159 http://mohua.gov.in/pdf/5c80e2225a124Handbook%20of%20Urban%20Statistics%202019.pdf	>80%	80%-64.9%	65%-49.9%	50%-34.9%	35%-19.9%	20%-4.9%	<=5%	-

3. WATER

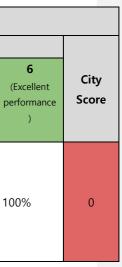| Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	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	**74%**	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 Board 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	<20%	20%-35.9%	36%-51.9%	52%-67.9%	68%-83.9%	84%-99.9%	100%	4

								3. WATER								
								7 Point Scoring Range								
Code	Numbe r	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
							_p_mode=view&p_p_col_id= column- 1&p_p_col_count=1&action Val=Retrieve&SkipAccessCh ecking=false								
WTR	3.2	**Percentage of water samples in a year that comply with national potable water quality standards (%)**	Primary	Non-spatial	**83%**	GPSC	Handbook of Service Level Benchmarking - CPHEEO; Pg. 33 http://cpheeo.gov.in/u pload/uploadfiles/files /Handbook.pdf	<90%	90%-91.9%	92%-93.9%	94%-95.9%	96%-97.9%	98%-99.9%	100%	0
WTR	3.3	**Existence of water resources assessment and management Plan prepared in the last five years**	Primary	Non-spatial	**No water resource assessmen t has been carried out**	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	0
WTR	3.4	**Extent of Non-Revenue Water (%)**	Primary	Non-spatial	**0%**	CSCAF (4.4: Indicator 2)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 28 http://cpheeo.gov.in/u pload/uploadfiles/files /Handbook.pdf	>40%	40%-35.9%	36%-31.9%	32%-27.9%	28%-23.9%	24%-19.9%	<=20%	6
WTR	3.5	**Water supply per capita (LPCD)**	Secondary	Non-spatial	**147**	MPI (1.3.2)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 25 http://cpheeo.gov.in/u pload/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	5

							3. WATER								
							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**
WTR	3.6	**Extent of metering of water supply connections (%)**	Secondary	Non-spatial	**0%**	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%	0

Note*: **-:** Not Collected / Not Available

							4. SANITATION								
							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**
SAN	4.1	**Percentage of properties in the ULB connected to sewerage network (%)**	Primary	Non-spatial	**0%**	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=nor	<80%	80%-83.9%	84%-87.9%	88%-91.9%	92%-95.9%	96%-99.9%	100%	0

4. SANITATION															
							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**
							mal&p_p_mode=view &p_p_col_id=column-1&p_p_col_count=1&a ctionVal=Retrieve&Ski pAccessChecking=fals e								
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/u pload/uploadfiles/files /Handbook.pdf Swachh Bharat Mission - Urban ODF https://swachhodfurba n.org/	<90%	90%-91.9%	92%-93.9%	94%-95.9%	96%-97.9%	98%-99.9%	100%	6
SAN	4.3	**Percentage of sewage treated before discharge into surface water bodies (%)**	Primary	Non-spatial	**0%**	NIF (6.3.1)	Handbook of Service Level Benchmarking - CPHEEO; Pg. 46 http://cpheeo.gov.in/u pload/uploadfiles/files /Handbook.pdf	<20%	20%-35.9%	36%-51.9%	52%-67.9%	68%-83.9%	84%-99.9%	100%	0
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	**0%**	Expert recommended	Handbook of Service Level Benchmarking - CPHEEO; Pg. 49 http://cpheeo.gov.in/u pload/uploadfiles/files /Handbook.pdf	<70%	70%-75.9%	76%-81.9%	82%-87.9%	88%-93.9%	94%-99.9%	100%	0
SAN	4.5	**Percentage of wastewater received at the treatment plant**	Primary	Non-spatial	**0%**	CSCAF (4.4: Indicator 3)	Handbook of Service Level Benchmarking -	<10%	10%-11.9%	12%-13.9%	14%-15.9%	16%-17.9%	18%-19.9%	>=20%	0

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)	
		that is recycled or reused after appropriate treatment for various purposes (%)					CPHEEO; Pg. 51 http://cpheeo.gov.in/upload/upload files/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									
SAN	4.6	**Percentage of city sewage that is treated in a sewage treatment plant (%)**	Secondary	Non-spatial	**0%**	MPI (1.4.5)	Municipal Performance Index Pg. 38 https://smartnet.niua.org/eol19/pdf/MPI_Methodology.pdf	<20%	20%-35.9%	36%-51.9%	52%-67.9%	68%-83.9%	84%-99.9%	100%	0

							4. SANITATION									
								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
							Table: State-wise details of sewage generation in urban areas and treatment capacity 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 wastewater treatment as per CPCB norms (%)	Secondary	Non-spatial	0%	Expert recommended	NA	<80%	80%-83.9%	84%-87.9%	88%-91.9%	92%-95.9%	96%-99.9%	100%	0
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 Bharat 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

Note*: **-:** Not Collected / Not Available

5. SOLID WASTE 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)	
SWM	5.1	**Percentage of city's wet waste processed (%)**	Primary	Non-spatial	**100%**	CSCAF (4.5: Indicator 4)	PIB - Swachh 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	**100%**	SS 2020 (2.3)	PIB - Swachh 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	**0%**	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.worldbank.org/what-a-waste/trends_in_solid_waste_management.html	>50%	50%-43.9%	44%-37.9%	38%-31.9%	32%-25.9%	26%-19.9%	<=20%	6
SWM	5.5	**Percentage of waste remediated in the city (%)**	Primary	Non-spatial	**0%**	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**	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

UN@HABITAT

											7 Point Scoring Range				

<table>
<tr><td colspan="16" align="center">**5. SOLID WASTE MANAGEMENT**</td></tr>
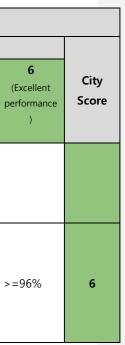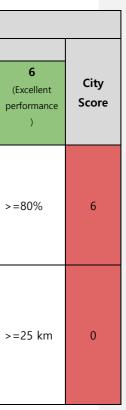<tr><td rowspan="2">Code</td><td rowspan="2">Number</td><td rowspan="2">Indicator</td><td rowspan="2">Primary/ Secondary/ Tertiary; Aspirational</td><td rowspan="2">Type of Indicator</td><td rowspan="2">City Indicator Value</td><td rowspan="2">Source Reference Framework</td><td rowspan="2">Source of Threshold / National Average / Benchmark</td><td colspan="7" align="center">7 Point Scoring Range</td><td rowspan="2">City Score</td></tr>
<tr><td>0
(Very low performance)</td><td>1
(Low performance)</td><td>2
(Lower medium performance)</td><td>3
(Medium performance)</td><td>4
(Upper medium performance)</td><td>5
(High performance)</td><td>6
(Excellent performance)</td></tr>
<tr><td></td><td></td><td>which is maintained till processing/ disposal site (%)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>SWM</td><td>5.7</td><td>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</td><td>Secondary</td><td>Non-spatial</td><td>3</td><td>SS 2020 (1.3)</td><td>NA</td><td>If 0 ICT Based Monitoring mechanisms</td><td>NA</td><td>NA</td><td>If 1 or 2 ICT Based Monitoring mechanisms</td><td>NA</td><td>NA</td><td>If all 3 ICT Based Monitoring mechanisms</td><td>6</td></tr>
<tr><td>SWM</td><td>5.8</td><td>Percentage of informal waste pickers integrated into sustainable SWM systems (%)</td><td>Secondary</td><td>Non-spatial</td><td>100%</td><td>SS 2020 (1.4)</td><td>NA</td><td><60%</td><td>60%-63.9%</td><td>64%-67.9%</td><td>68%-71.9%</td><td>72%-75.9%</td><td>76%-79.9%</td><td>>=80%</td><td>6</td></tr>
<tr><td>SWM</td><td>5.9</td><td>Percentage of C&D waste collected of the total C&D waste generated (%)</td><td>Secondary</td><td>Non-spatial</td><td>0%</td><td>SS 2020 (2.6)</td><td>NA</td><td><60%</td><td>60%-66.9%</td><td>67%-73.9%</td><td>74%-80.9%</td><td>81%-87.9%</td><td>88%-94.9%</td><td>>=95%</td><td>0</td></tr>
<tr><td>SWM</td><td>5.10</td><td>Percentage of hazardous waste processed (%)</td><td>Secondary</td><td>Non-spatial</td><td>100%</td><td>SS 2020 (2.5)</td><td>CPCB Annual Report 2018-19; https://cpcb.nic.in/openpdffile.php?id=UmVwb3J0RmlsZXMvMTExOV8xNTk3MDM3NTM0X21lZGlhcGhvdG8xOTY1Ni5wZGY=</td><td><50%</td><td>50%-53.9%</td><td>54%-57.9%</td><td>58%-61.9%</td><td>62%-65.9%</td><td>66%-69.9%</td><td>>=70%</td><td>6</td></tr>
<tr><td>SWM</td><td>5.11</td><td>Total solid waste generation per capita per day (kg/capita/day)</td><td>Tertiary</td><td>Non-spatial</td><td>0.08</td><td>SS 2020 (2.1)</td><td>Swachh Bharat Mission, Part II Manual (2016) Pg. 83; World Bank https://datatopics.worldbank.org/what-a-waste/trends_in_solid_waste_management.ht</td><td>>1.1</td><td>1.1-0.89</td><td>0.9-0.69</td><td>0.7-0.49</td><td>0.5-0.29</td><td>0.3-0.01</td><td><=0.11</td><td>6</td></tr>
</table>

UN@HABITAT

5. SOLID WASTE 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)	
							ml http://mohua.gov.in/upload/uploadfiles/files/Part2.pdf								
SWM	5.12	**Percentage Coverage of wards under Door-To-Door Collection System (%)**	Tertiary	Non-spatial	**100%**	MPI (1.4.1)	PIB - Swachh 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

Note*: **-:** Not Collected / Not Available

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)	
TR	6.1	**Proportion of population with access to public transport with in 500m (%)**	Primary	Spatial	**11%**	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**	GPSC	Green cities programme methodology, pg. no: 80 https://www.ebrd.com/documents/technical-cooporation/green-	<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

UN@HABITAT

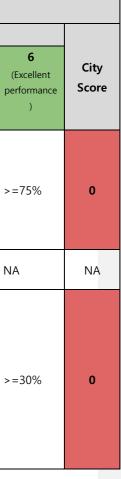|								7 Point Scoring Range							
Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	City Score
							city-action-plan-in-tirana.pdf								
TR	6.3	Percentage of major roads covered with footpath (footpath wider than 1.2 meters) within the city (%)	Primary	Non-spatial	0%	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%	0
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/sq.kms)	Primary	Non-spatial	2.40	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	30	GPSC	SLB in Urban Transport, pg. no: 29 http://mohua.gov.in/upload/uploadfiles/files/VoulmeI_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	6
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.j	<15%	15%-18.5%	18.6%-22.1%	22.2%-25.7%	25.8%-29.3%	29.4%-32.9%	>=33%	-

UN❂HABITAT

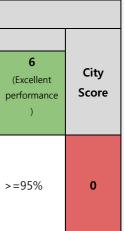|								7 Point Scoring Range							
6. TRANSPORTATION															
Code	**Number**	**Indicator**	**Primary/ Secondary/ Tertiary; Aspirational**	**Type of Indicator**	**City Indicator Value**	**Source Reference Framework**	**Source of Threshold / National Average / Benchmark**	**0** (Very low performance)	**1** (Low performance)	**2** (Lower medium performance)	**3** (Medium performance)	**4** (Upper medium performance)	**5** (High performance)	**6** (Excellent performance)	**City Score**
							p/content/documents/ 6988Background%20P aper%20for%20EST%2 0Plenary%20Session% 205- 11th%20Regiona%20E ST%20Forum.pdf								
TR	6.9	**Street intersection density (intersections/sq.kms)**	Secondary	Non-spatial	**0.61**	CPI (5.1)	Economic Foundations for Sustainable Urbanization, UN-Habitat, Pg. 37 https://unhabitat.org/s ites/default/files/down load-manager-files/3PA_Second%20E dition_ForWeb.pdf	Less than 75 intersectio ns	NA	NA	Between 75 and 100 intersectio ns	NA	NA	Greater than 100 intersectio ns	0
TR	6.10	**Kilometres of road with public transit per 100,000 population (km)**	Secondary	Non-spatial	**17**	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	3
TR	6.11	**Fatal and serious injuries in road accidents per lakh population (number)**	Secondary	Non-spatial	**68**	GPSC	SLB in Urban Transport, pg.: 32 (http://mohua.gov.in/u pload/uploadfiles/files /Voulmel_Methodolog yreport_final03.pdf)	>6	6-4.7	4.8-3.5	3.6-2.3	2.4-1.1	1.2--0.1	0	**0**

UN❂HABITAT

									7 Point Scoring Range						
									6. TRANSPORTATION						
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	6.12	Accessibility of differently abled groups to Public Buses (%)	Secondary	Non-spatial	0%	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	100%	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	1%	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%	0

Note*: **-:** Not Collected / Not Available

									7 Point Scoring Range						
									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
SCL	7.1	Percentage of population within 800m distance to healthcare facilities (public/private) (%)	Primary	Spatial	39%[7]	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%	0

_____
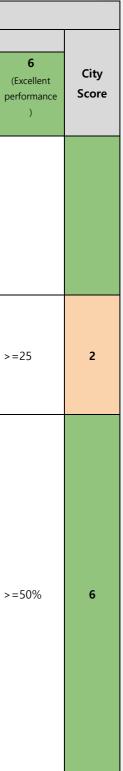[7] The city's population is considered from Census 2011

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	7.2	**Percentage of females of ages 7 and above who are literate (%)**	Primary	Non-spatial	**68%**	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%	**2**
SCL	7.3	**Percentage of population within 800m distance to primary/secondary schools (public/private) (%)**	Primary	Spatial	**72%**	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	**-14%**	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
SCL	7.5	**City Level Dependency Ratio (%)**	Secondary	Non-spatial	**Data not available**	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	**0%**	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.i	>47.5	47.5-42.9	43-38.4	38.5-33.9	34-29.4	29.5-24.9	<=25	**6**

UN⊕HABITAT

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)	
							n/niti/content/under-5-mortality-rate-u-5mr-1000-live-births) World Bank database (https://data.worldbank.org/indicator/SH.DYN.MORT?locations=IN)								
SCL	7.7	**Bed density in public and private hospitals (Hospital beds per 10,000 residents) (number)**	Secondary	Non-spatial	**18**	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	**2**
SCL	7.8	**Percentage reduction in prevalence of vector borne diseases (malaria, dengue) over the previous year (%)**	Secondary	Non-spatial	**56%**	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-	<25%	25%-29.9%	30%-34.9%	35%-39.9%	40%-44.9%	45%-49.9%	>=50%	**6**

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)	
							opportunities/innovations-in-vector-borne-disease-control-in-india https://nvbdcp.gov.in/index1.php?lang=1&level=1&sublinkid=5776&lid=3690 https://main.mohfw.gov.in/sites/default/files/5201617.pdf								
SCL	7.9	Percentage reduction in prevalence of waterborne diseases (Diarrhoea, typhoid) over the previous year (%)	Secondary	Non-spatial	-60%	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%	0
SCL	7.10	Percentage of schools with Access to Digital Education (%)	Secondary; Aspirational	Non-spatial	62%	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%	-

Note*: **-:** Not Collected / Not Available

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	8.1	Clean Air Action Plan (Planning and Implementation)	Primary	Non-Spatial	Assessing impacts	CSCAF (4.3: Indicator 5)	Climate Smart City Assessment Framework, Pg. 41-42	No Air Pollutant Monitorin	NA	NA	Clean Air Action Plan and	NA	NA	Assessing impacts of Clean Air	6

UN❂HABITAT

8. ENVIRONMENT AND ECOLOGY																
							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**
					of clean air action plan impleme ntation		https://csc.urban-industrial.in/hrdpmp/igep-uid/content/e5170/e6258/e10222/e10224/CSCAF_2_Booklet.pdf	g Clean Air Action Plan in the city			Pollutants Source Identification			Action Plan implemen tation	
ENV	8.2	**Existence of a GHG emissions measurement system with a monitoring system (Y/N)**	Primary; Aspirational	Non-Spatial	**Yes**	GPSC	NA	No	NA	NA	NA	NA	NA	Yes	**6**
ENV	8.3	**Total annual GHG emissions (MtCO2e)**	Primary; Aspirational	Non-Spatial	-	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	**2%**	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%	**0**
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	Implemen tation of actions	**0**
ENV	8.6	**Number of structural and financial incentives for green**	Primary	Non-Spatial	**No incentives**	EOLI (3.2.2)	Government Incentives to IGBC-rated Green Building	No incentives	NA	NA	One or two incentives	NA	NA	All three incentives	**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)	
		buildings implemented (number)					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								
ENV	8.7	Annual mean Air Quality Index (AQI) (number)	Secondary	Non-Spatial	106	EOLI (3.1.5)	NA	Greater than 300	NA	NA	Between 101 and 300	NA	NA	Less than 100	3
ENV	8.8	Annual CO2 equivalent (GHG) emissions per capita (MtCO2e/capita)	Secondary; Aspirational	Non-Spatial	Data not available	GPSC	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	NA
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 not available	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	NA
ENV	8.11	Area under ULB covered by trees per inhabitant (sqm per person)	Secondary	Non-Spatial	12.25	Expert Recommended	National Institute of Environmental Studies (NIES) https://cdn.narendramodi.in/ebooks/other-ebooks1/tree_cover_in	Less than 10 sqm	NA	NA	Between 10 sqm and 15 sqm	NA	NA	Greater than 15 sqm	3

UN@HABITAT

									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
							_urban_area/files/assets/basic-html/page22.html								
ENV	8.12	Is there a land use plan that includes zoning with environmental protection and preservation zones? (Y/N)	Secondary	Non-spatial	No	GPSC	NA	No	NA	NA	NA	NA	NA	Yes	0
ENV	8.13	Annual mean levels of PM10 (µg/m3)	Tertiary	Non-spatial	109	NIF (11.6.2)	Revised National Ambient Air Quality Standards, Pg. 1-2 https://cpcb.nic.in/displaypdf.php?id=aG9tZS9haXItcG9sbHV0aW9uL1JIY3ZlZC1OYXRpb25hbC5wZGY= 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	0
ENV	8.14	Annual mean levels of PM2.5 (µg/m3)	Tertiary	Non-spatial	54.9	NIF (11.6.2)	Revised National Ambient Air Quality Standards, Pg. 1-2 https://cpcb.nic.in/displaypdf.php?id=aG9tZS9haXItcG9sbHV0aW9uL1JIY3ZlZC1OYXRpb25hbC5wZGY= WHO: https://www.who.int/news-room/fact-	Greater than 40 µg/m3	NA	NA	Between 40 µg/m3 and 10 µg/m3	NA	NA	Less than 10 µg/m3	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)	
							sheets/detail/ambient-(outdoor)-air-quality-and-health								
ENV	8.15	**Annual concentration of NO2 (µg/m3)**	Tertiary	Non-spatial	**14.9**	GPSC	Revised National Ambient Air Quality Standards, pg. 1 https://cpcb.nic.in/displaypdf.php?id=aG9tZS9haXItcG9sbHV0aW9uL1JlY3ZlZC1OYXRpb25hbC5wZGY= WHO: https://www.who.int/news-room/fact-sheets/detail/ambient-(outdoor)-air-quality-and-health	Greater than 80 µg /m3	NA	NA	Between 80 µg/m3 and 40 µg/m3	NA	NA	Less than 40 µg/m3	6
ENV	8.16	**Average daily concentration of SO2 (µg/m3)**	Tertiary	Non-spatial	**2**	GPSC	Revised National Ambient Air Quality Standards, pg. 1 https://cpcb.nic.in/displaypdf.php?id=aG9tZS9haXItcG9sbHV0aW9uL1JlY3ZlZC1OYXRpb25hbC5wZGY= WHO: https://www.who.int/news-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

UN HABITAT

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	8.17	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

Note*: **-:** Not Collected / Not Available

9. CLEAN ENERGY

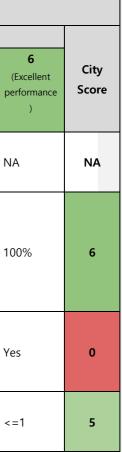| Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	7 Point Scoring Range							City Score
								0 (Very low performance)	1 (Low performance)	2 (Lower medium performance)	3 (Medium performance)	4 (Upper medium performance)	5 (High performance)	6 (Excellent performance)	
CE	9.1	Percentage of the city's households using LPG/PNG for cooking (%)	Primary	Non-spatial	85%	EOLI (3.1.3)	Drinking water, Sanitation, Hygiene & Housing Conditions in India, Pg. 195 http://mospi.nic.in/sites/default/files/NSS7612dws/Report_584_final.pdf	<67%	67%-73.5%	73.6%-80.1%	80.2%-86.7%	86.8%-93.3%	93.4%-99.9%	100%	3
CE	9.2	Percentage of total electrical energy in the city derived from renewable sources (%)	Primary	Non-spatial	0%	CSCAF (4.1: Indicator 2)	Renewable energy consumption - The World Bank (% of total final energy consumption) https://data.worldbank.org/indicator/EG.FEC.RNEW.ZS	<5%	5%-6.9%	7%-8.9%	9%-10.9%	11%-12.9%	13%-14.9%	>=15%	0

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

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**	**1**	**2**	**3**	**4**	**5**	**6**	**City Score**
CE	9.3	**Proportion of population in the city who have access to renewable energy (%)**	Primary; Aspirational	Non-spatial	**0%**	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%	**0**
CE	9.4	**Percentage of energy-efficient street lighting in the city (%)**	Primary	Non-spatial	**100%**	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%	**6**

UN❂HABITAT

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)	
CE	9.5	**Energy use per capita (kWh)**	Primary	Non-spatial	**50**	Expert Recommended	[Descriptive Indicator]	NA	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	**100%**	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%	**6**
CE	9.7	**Do existing building codes consider eco-friendly techniques and/or the use of local/renewable material? (Y/N)**	Secondary	Non-spatial	**No**	City RAP	NA	No	NA	NA	NA	NA	NA	Yes	**0**
CE	9.8	**System Average Interruption Frequency Index (SAIFI) (number)s**	Tertiary	Non-spatial	**2**	Expert Recommended	NA	>73.5	73.5-58.9	59-44.4	44.5-29.9	30-15.4	15.5-0.9	<=1	**5**

Note*: **-:** Not Collected / Not Available

10. DISASTER RISK 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)	
DRM	10.1	**Presence of City Disaster Management Plan prepared / updated in last five years (Y/N)**	Primary	Non-spatial	**Plan prepared after year 2016**	GPSC	NA	No Plan	NA	NA	Plan prepared before year 2016	NA	NA	Plan prepared after year 2016	**6**
DRM	10.2	**Existence of hazard vulnerability maps/risk maps (at city level) prepared / updated in the last**	Primary	Non-spatial	**Maps not prepared /updated**	GPSC	NA	Maps not prepared	NA	NA	Maps prepared / updated	NA	NA	Maps prepared / updated	**3**

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)	
		five years for the main hazards threatening the city (Y/N)			prior to 2016						prior to year 2016			in or after year 2016	
DRM	10.3	Percentage of households at risk due to placement in areas of non-mitigable risk within the ULB (%)	Primary	Non-spatial	2%	ESCI (H.2)	NA	>20%	20%-17.9%	18%-15.9%	16%-13.9%	14%-11.9%	12%-9.9%	<=10%	6
DRM	10.4	Percentage of buildings within 4km distance to fire service facility (%)	Primary	Spatial	73%	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%	1
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	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	3	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	6

Note*: **-:** Not Collected / Not Available

UN@HABITAT

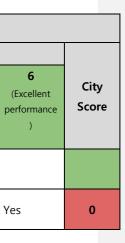| 11.						GOVERNANCE AND DATA MANAGEMENT									
							7 Point Scoring Range								
Code	Number	Indicator	Primary/ Secondary/ Tertiary; Aspirational	Type of Indicator	City Indicator Value	Source Reference Framework	Source of Threshold / National Average / Benchmark	**0** (Very low performance)	**1** (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	GPSC	URDPFI, Vol I, pg. 105 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I.pdf URDPFI, Vol I, pg. 315 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%20I.pdf	<0.5	0.5-0.59	0.6-0.69	0.7-0.79	0.8-0.89	0.9-0.99	>=1	0
GOV	11.2	**Years since enforced master plan/development plan was last reviewed and updated (number of years)**	Primary	Non-spatial	6	GPSC	URDPFI, Vol I, pg. 06 http://mohua.gov.in/upload/uploadfiles/files/URDPFI%20Guidelines%20Vol%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	5
GOV	11.3	**Number of services being managed through command-and-control system in the ULB (number)**	Primary	Non-spatial	0	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.in/sites/upload_files/mhrd/files/upload_document/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/	MPI (4.1.2)	AMRUT Reform Agenda - Formulation of GIS Based Master Plan for AMRUT Cities -	Absence of GIS base Master Plan	NA	NA	Presence of GIS base Master Plan	NA	NA	Presence of GIS base Master Plan	3

								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**
					updated before 2015		http://amrut.gov.in/upload/uploadfiles/files/AMRUT-SubScheme_Guideline(4).pdf				prepared / updated before 2015			prepared / updated after 2015	
GOV	11.6	**Environmental status report with action plans published by the ULB for the last three years**	Secondary	Non-spatial	**Yes**	MPI (5.1.4)	NA	No	NA	NA	NA	NA	NA	Yes	**6**
GOV	11.7	**Percentage of total staff trained during the year in any of the ULB functionary domains (%)**	Secondary	Non-spatial	**13%**	MPI (5.4.3)	NA	<50%	50%-54.9%	55%-59.9%	60%-64.9%	65%-69.9%	70%-74.9%	>=75%	**0**
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 (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	Non-spatial	**4**	MPI (3.1.1)	NA	Less than 2	NA	NA	Between 2 and 4	NA	NA	All 5	**6**

UN@HABITAT

							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

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	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	11.9	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	**4**	Expert recommended	1) Yes 2) Yes 3) Yes 4) Yes,358 street vendors 5) At District level 6) Data to be collected	Less than or equal to 3	NA	NA	Between 4 and 5	NA	NA	6	**3**
GOV	11.11	ULB's citizen charter and appeal mechanisms	Secondary	Non-spatial	**Doesn't exist**	MPI (5.4.1)	NA	Doesn't exist	NA	NA	Exist only offline	NA	NA	Exists offline and online	**0**
GOV	11.12	Presence of City data officer (Y/N)	Secondary	Non-spatial	**Yes**	MPI (3.1.6)	NA	No	NA	NA	NA	NA	NA	Yes	**6**
GOV	11.13	Proportion of Women councillors in Municipal Council (%)	Tertiary	Non-spatial	**62%**	MPI (5.2.2)	74th Constitutional Amendment Act of India https://www.mhrd.gov.in/sites/upload_files/m	<33%	33%-36.3%	36.4%-39.7%	39.8%-43.1%	43.2%-46.5%	46.6%-49.9%	>=50%	**6**

UN❋HABITAT

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	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
							hrd/files/upload_document/74amend.pdf								
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**

Note*: **-:** Not Collected / Not Available

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	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
FIN	12.1	**Credit rating of the ULB**	Primary	Non-spatial	**Data not available**	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	
FIN	12.2	**Total property tax collected as a percentage of total property tax billed in the same financial year (%)**	Primary	Non-spatial	**36%**	MPI (2.1.5)	NA	<60%	60%-63.9%	64%-67.9%	68%-71.9%	72%-75.9%	76%-79.9%	>=80%	**0**
FIN	12.3	**Financial dependency: Percentage of grants received from central and state governments to total revenue (%)**	Primary	Non-spatial	**100%**	Expert Recommended	NA	>60%	60%-53.9%	54%-47.9%	48%-41.9%	42%-35.9%	36%-29.9%	<=30%	**0**
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

UN❂HABITAT

										7 Point Scoring Range						

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	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
FIN	12.5	Change in Own Source Revenue (number of years with OSR > 20%)	Secondary	Non-spatial	1	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	0
FIN	12.6	Operating margin: Difference in revenue and expenditure in the financial year (INR in Lakhs)	Secondary	Non-spatial	-2135452	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	0%	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	100%	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%	6
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	90%	Expert Recommended	NA	<60%	60%-63.9%	64%-67.9%	68%-71.9%	72%-75.9%	76%-79.9%	>=80%	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
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	Data not available	Expert Recommended	NA	<30%	30%-37.9%	38%-45.9%	46%-53.9%	54%-61.9%	62%-69.9%	>=70%	-
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	10%	Expert Recommended	NA	<30%	30%-37.9%	38%-45.9%	46%-53.9%	54%-61.9%	62%-69.9%	>=70%	0
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	10%	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	5.2%	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-	>14%	14%-11.9%	12%-9.9%	10%-7.9%	8%-5.9%	6%-3.9%	<=4%	5

12.   FINANCE AND ECONOMY

UN❋HABITAT

							7 Point Scoring Range							
							0 (Very low performance)	**1** (Low performance)	**2** (Lower medium performance)	**3** (Medium performance)	**4** (Upper medium performance)	**5** (High performance)	**6** (Excellent performance)	
Code	**Number**	**Indicator**	**Primary/ Secondary/ Tertiary; Aspirational**	**Type of Indicator**	**City Indicator Value**	**Source Reference Framework**	**Source of Threshold / National Average / Benchmark**							**City Score**
							18_31052019.pdf?download=1							
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-spatial	92%	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	39%	MPI (2.2.3)	NA	<10%	10%-15.9%	16%-21.9%	22%-27.9%	28%-33.9%	34%-39.9%	>=40%	**5**
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	81%	CPI (3.3)	[Descriptive Indicator]	NA	NA	NA	NA	NA	NA	NA	**NA**

Table header: 12.   FINANCE AND ECONOMY

Note*: **-:** Not Collected / Not Available

UN◉HABITAT

A better quality of life for all
in an urbanizing world

UN-HABITAT