

1. DEMOGRAPHIC INDICATORS

SL NO	DATA PARAMETERS	UNITS
	DEMOGRAPHY	
0	Current Year of assessment	year
	Details on demographics	
0.1	Population	number
0.2	Number of Households	number
0.3	Number of properties registered	number
0.4	Number of properties as per GIS database	number
0.5	Area of the jurisdiction	sqkm
0.6	Built up area	sqkm
0.7	Number of wards	number
	Details on demographics in 2011	
0.8	Population in 2011	number
0.9	Number of Households in 2011	number
0.10	Male Population residing	number
0.11	Female Population residing	number
0.12	Number of females age 7 and above	number
0.13	Number of literate females age 7 and above	number
0.14	Number of people aged 0-14 residing	number
0.15	Number of people aged 15-64 residing	number
0.16	Number of people aged 65 and above residing	number
0.17	Population in 2001	number
0.18	Population in 1991	number
0.19	Population for 2021	number
0.20	Projected Population for 2031	number
0.21	Projected Population for 2041	number
1	URBAN FORM, PUBLIC SPACE AND SAFETY	
	Details on Safety	
1.1	Length of roads covered by streetlights	kilometres (km)
1.2	Rating of safety standards	number
1.3	Total number of fatalities recorded in road accidents	number

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1.4	Total number of fatalities where pedestrians were involved in road accidents	number
1.5	Rating of safety standards (Poor/Fair/Good)	Drop Down Menu
	Details on agriculture land	
1.10	Area under agriculture use as per the existing land use plan	square kilometres (sqkm)
1.11	Area under agriculture use in the proposed land use plan	square kilometres (sqkm)
	Details on green spaces, open spaces & parks	
1.12	Total developable area	square kilometres (sqkm)
1.13	Total area under open spaces (includes recreational space, organised green, other common open spaces such as vacant lands/ open spaces including flood plains, forest cover etc. in plain areas.)	square kilometres (sqkm)
1.14	Area under parks and open space use	square kilometres (sqkm)
1.15	Population residing within a distance of 500 m from the nearest park, public open space	number
1.17	Total area under parks	square kilometres (sqkm)
2	HOUSING AND PROPERTY	
2.1	Number of households residing in slums /squatter settlements	number
2.2	Number of households spending greater than 30% of the income on accomodation expenses	number
2.3	Number of households with one room	number
2.4	Number of households living in owned houses	number
2.5	Area under slums or informal settlements	sqkm
3	WATER	
3.1	Total Households with piped connections	number
3.2	Total water supplied per day	million litres per day (MLD)
3.3	Total number of water supply connections	number
3.4	Total number of households with functional metered water supply connection	number
3.5	Total number of water samples collected in a month	number
3.6	Number of samples that meet the specified potable water standards in the month	number
3.7	Total water produced and put into the transmission and distribution system	million litres per day (MLD)
3.8	Total Water Sold	million litres per day (MLD)

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3.9	Existence of water resources assessment and management Plan prepared in the last five years	Drop Down Menu
4	SANITATION	
4.1	Total sewage generated	million litres per day (MLD)
4.2	Total sewage treated	million litres per day (MLD)
4.3	Total number of households with access to toilets	number
4.4	Total number of properties with direct connection to the sewage network (Properties include those in the categories of residential, commercial, industrial and institutional.)	number
4.5	Number of Public Toilets	number
4.6	Number of Public Toilets mapped on google maps	number
4.7	Total treated effluent wastewater samples collected in a year	number
4.8	Total treated effluent wastewater samples that passed the specified secondary treatment standards in a year	number
4.9	Total number of industries that require installation of waste water treatment plant	number
4.10	Total number of industries complying with waste water treatment standards as per CPCB norms	number
4.11	Total treatment capacity	million litres per day (MLD)
4.12	Total wastewater recycled or reused after appropriate treatment	million litres per day (MLD)
4.13	FSSM Action plan or notified Sanitation or septage management benchmarks, byelaws/ guidelines/ policy notes prepared by the Development Authority	Select from Drop down Menu
5	SOLID WASTE MANAGEMENT	
5.1	Total Solid Waste generated	tonnes per day (TPD)
5.2	Total Wet Waste collected	tonnes per day (TPD)
5.3	Total Dry Waste collected	tonnes per day (TPD)
5.4	Total Domestic Hazardous waste collected	tonnes per day (TPD)
5.5	Total Construction & Demolition Waste generated	tonnes per day (TPD)
5.6	Number of wards in which segregation of waste is undertaken at the source of generation and maintained till processing or disposal	number
5.7	Number of wards in which Door to Door collection of waste is being undertaken	number
5.8	Total waste processed	number
	Quantity of waste processed/utilised in -	

SL NO	DATA PARAMETERS	UNITS
5.9	Total wet waste processed	tonnes per day (TPD)
5.10	Total quantity of waste used for energy recovery (incineration)	tonnes per day (TPD)
5.11	Total quantity of hazardous waste processed	tonnes per day (TPD)
5.12	Total quantity of dry waste that is separated and classified for recycling/material recovery	tonnes per day (TPD)
5.13	Total quantity of C&D waste that is separated and classified for utilisation/processing	tonnes per day (TPD)
5.14	Availability/status of Remediation and scientific landfill closure of existing dumpsites undertaken	number of category of ICT mechanisms
	Details on waste pickers employed	
5.15	Total waste pickers (Internal & Outsourced)	number
5.16	Total Informal Waste Pickers formally integrated into Sustainable Livelihoods	number
	Details on ICT based Monitoring Mechanism	
5.17	Ward wise Collection and Transportation (C&T)s	Drop Down Menu
5.18	Monitoring of Garbage Vulnerable Points (GVP	Drop Down Menu
5.19	Attendance of Sanitation Staff	Drop Down Menu
6	TRANSPORTATION	
	Details on rural roads	
6.1	Total length of road	kilometres (km)
6.2	Total area allocated to streets	square kilometres (sqkm)
6.3	Number of intersections	number
	Details on Road Congestion	
6.4	Average speed of travel in arterial & sub arterial roads during peak hours	kilometres per hour (kmph)
	Details on modal share of transportation systems	
6.5	Percentage share of population using Cycles	percentage (%)
6.6	Percentage share of population commute on foot	percentage (%)
	Details on coverage of modes of transportation	
6.7	Total length of public transportation route	kilometres (km)
6.8	Total number of buses in the public transportation fleet	number
6.9	Total number of buses with clean fuel technologies	number

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6.10	Number of buses as per urban bus specification II (2013)	number
6.11	Total ridership of public transportation in current year	number
6.12	Total ridership of public transportation in previous year	number
6.13	Total length roads with dedicated bicycle tracks	kilometres (km)
6.14	Total length of major road network (arterial & sub arterial)	kilometres (km)
6.15	Total length of major roads with footpath (width>1.2m) on one side of the road	kilometres (km)
6.16	Total length of major roads with footpath (width>1.2m) on both side of the road	kilometres (km)
6.17	Percentage of population residing within a distance of 500 m from the nearest public transit stop	percentage (%)
6.18	Percentage of population residing within a travel time of 30 min from work place	percentage (%)
	Details on Road Accidents	
6.19	Serious injuries recorded in road accidents	number
7	SOCIAL FACILITIES AND SERVICES	
7.1	Total number of mobile phones with 3G or 4G subscriptions till reference year	number
	Under-five mortality rate	
7.2	Total number of live births in the reference year	number
7.3	Number of deaths of children under the age of five	number
7.4	Population residing within a distance of 800 m from the nearest healthcare facility	GIS data input
7.5	Total number of beds in public & private hospitals	number
	Prevalence of diseases	
7.6	Total number of reported cases of Malaria and Dengue in 2021 year	number
7.7	Total number of reported cases of Malaria and Dengue in 2020 year	number
7.8	Total number of reported cases of Diarrhoea and Typhoid in 2021 year	number
7.9	Total number of reported cases of Diarrhoea and Typhoid in 2020 year	number
	Education	
7.10	Population residing within a distance of 800 m from primary or Secondary school	GIS data input
7.11	Number of schools	number
7.12	Number of schools with access to digital education	number
8	ENVIRONMENT AND ECOLOGY	

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8.1	Does the area have Pollutant Monitoring, Planning and Implementation of Clean Air Action Plan?	Drop Down Menu
8.2	Does the area planned for GHG emissions measurement and monitoring systems?	Drop Down Menu
	Details on air pollutant concentrations	
8.3	Annual mean AQI	number
8.4	Average daily PM10 concentration for the reference year	micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
8.5	Sum of daily average PM2.5 concentration for the reference year	micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
8.6	Average daily NO2 concentration for the reference year	micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
8.7	Average daily SO2 concentration for the reference year	micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
	Details on methane emissions	
8.8	Sum of daily average methane emissions for the reference year	million metric tonnes of carbon dioxide equivalent (MtCO _{2e})
8.9	Annual CO2 equivalent emissions in the transportation sector	million metric tonnes of carbon dioxide equivalent (MtCO _{2e})
8.10	Total CO2 equivalent emissions for the reference year	million metric tonnes of carbon dioxide equivalent (MtCO _{2e})
8.11	Existence, monitoring and enforcement of regulations on noise pollution	Drop Down Menu
8.12	Biochemical Oxygen demand 3 day, 270C	milligrams of oxygen per liter
8.13	Area of tree cover	square kilometres (sqkm)
8.14	Extent to which area is acting for protection, conservation and management of urban biodiversity	Drop Down Menu
8.15	Is there a land use plan that includes zoning with environmental protection and preservation zones?	Drop Down Menu
8.16	Number of structural and financial incentives for green buildings implemented	Drop Down Menu
9	CLEAN ENERGY	
9.1	Number of households having an authorized electricity connection	number
9.2	Number of households having LPG/PNG connection	number
	Details on energy consumption	
9.3	Total energy consumption	kilowatt hour (kWh)
9.4	Total population using clean fuel technologies	number
9.5	Total electrical energy consumption (in kWh) from all on-grid renewable energy sources and is used	kilowatt hour (kWh)
9.6	Cumulative installed capa(in KW) of off grid renewable energy sources for self consumption	kilowatt (KW)
9.7	Total connected electrical load (in KW)	kilowatt (KW)
9.8	System Average Interruption Frequency Index (SAIFI)	number

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	Details on Streetlights	
9.9	Total number of street lights	number
9.10	Number of LED street lights	number
	Details on Building Codes	
9.11	Do existing building codes consider eco-friendly techniques and/or the use of local/renewable material?	Drop Down Menu
10	DISASTER RISK MANAGEMENT	
10.1	Presence of Disaster Management Plan and year of preparation	Drop Down Menu
10.2	Presence of hazard early warning systems linked with command control system	Drop Down Menu
10.3	Existence of hazard vulnerability maps/risk maps prepared / updated in the last five years for the main hazards threatening (Y/N)	Drop Down Menu
10.4	Number of households at high risk to natural disasters	number
10.5	Number of buildings	number
10.6	Number of buildings located within a distance of 4km from a fire service facility (fire station/sub-fire station/fire post)	number
	Flood risk assessment and management	
10.7	carried out flood risk assessment	Drop Down Menu
10.8	conducted a rapid flood risk assessment using simple techniques to ascertain flood levels, flooding hotspots, threats to life and property, etc.	Drop Down Menu
10.9	Implementing the flood management plan	Drop Down Menu
11	GOVERNANCE AND DATA MANAGEMENT	
11.1	Total number of ward members	number
11.2	Total number of ward members	number
11.3	Total number of staff	number
11.4	Number of planners working	number
11.5	Total number of staff trained during the given year	number
11.6	Year in which the enforced master plan was last reviewed and updated	year
11.7	Environmental status report with action plans for the last three years	Drop Down Menu
	e-governance initiatives	

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11.8	website	Drop Down Menu
11.9	Online Public Service Delivery (Services provided online as a proportion of total Services provided)	Drop Down Menu
11.10	Online Public Service Delivery on Mobile (Services provided via mobile as a proportion of total Services provided)	Drop Down Menu
11.11	Online Grievance Redressal (number of grievances received online as a proportion of total grievances received)	Drop Down Menu
11.12	Online Grievance Redressal on Mobile (Services provided via mobile as a proportion of total Services provided)	Drop Down Menu
11.13	Number of services being managed through a command and control system ?	number
11.14	Local development control regulations and master plan / development plan are accessible completely through the web	Drop Down Menu
11.15	Existence of following stipulated committees 1) Gramapanchayat Committee 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	number
11.16	Presence of citizen charter and types of appeal mechanisms in place	Drop Down Menu
11.17	Number of functions being implemented out of 18 functions stipulated in the Twelfth schedule of Indian constitution.	Drop Down Menu
11.18	Existence of Geographic information System (GIS) based Master Plan f	Drop Down Menu
11.19	Presence of data officer	Drop Down Menu
11.20	Presence of Open Data Portal	Drop Down Menu
12	FINANCE AND ECONOMY	
12.1	Latest Credit Rating	Credit Score (AAA+, AAA, AAA-, AA+....)
	Details on Property Taxes	
12.2	Number of Properties included in the tax net	number
12.3	Total Property Tax billed in the financial year	Indian Rupees (INR) in Lakhs

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12.4	Total Property Tax collected in the financial year	Indian Rupees (INR) in Lakhs
	Details on financials	
12.5	Total actual revenue in 2018-19	Indian Rupees (INR) in Lakhs
12.6	Total actual revenue in 2017-18	Indian Rupees (INR) in Lakhs
12.7	Total actual revenue in 2016-17	Indian Rupees (INR) in Lakhs
12.8	Total actual revenue in 2015-16	Indian Rupees (INR) in Lakhs
12.9	Total actual revenue in 2014-15	Indian Rupees (INR) in Lakhs
12.10	Total actual expenditure in 2018-19	Indian Rupees (INR) in Lakhs
	Details on own source revenue (OSR) [Cumulative of income from tax revenue (property tax, advertisement tax, Swachh Bharat Cess,) and non tax revenue (User fee, user charges, rent collection, return on investment, trade licence fee.....)]	
12.11	OSR in 2018-19	Indian Rupees (INR) in Lakhs
12.12	OSR in 2017-18	Indian Rupees (INR) in Lakhs
12.13	OSR in 2016-17	Indian Rupees (INR) in Lakhs
12.14	OSR in 2015-16	Indian Rupees (INR) in Lakhs
12.15	OSR in 2014-15	Indian Rupees (INR) in Lakhs
12.16	Total annual debt service payment in the financial year (interest and loan repayment)	Indian Rupees (INR) in Lakhs
12.17	Total budgeted capital expenditure for the financial year	Indian Rupees (INR) in Lakhs
12.18	Total actual capital expenditure spent during the financial year	Indian Rupees (INR) in Lakhs
12.19	Total loans/debts budgeted for spending the financial year	Indian Rupees (INR) in Lakhs
12.20	Total grants received from central and state government in the financial year 2018-19	Indian Rupees (INR) in Lakhs
	Change in OSR / Total Revenue	
	Details on GDP	
12.21	GDP (Price deflated) in 2019	Indian Rupees (INR) in Lakhs
12.22	GDP (Price deflated) in 2015	Indian Rupees (INR) in Lakhs
	Details on Financials in Water Sector	
12.23	Operating Expenditure incurred to provide drinking water supply	Indian Rupees (INR) in Lakhs

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12.24	Revenue collected from user charges	Indian Rupees (INR) in Lakhs
	Details on Financials in Sanitation Sector	
12.25	Operating Expenditure incurred for providing sanitation facilities	Indian Rupees (INR) in Lakhs
12.26	Revenue collected from user charges	Indian Rupees (INR) in Lakhs
	Details on Financials in Solid Waste Management Sector	
12.27	Operating Expenditure for implementing waste management projects	Indian Rupees (INR) in Lakhs
12.28	Revenue collected from user charges	Indian Rupees (INR) in Lakhs
	Details on workforce	
12.29	Total workforce	number
12.30	Total workers employed in the services sector	number
12.31	Total workforce without any social protection or entitlement to employment benefits	number
12.32	Number of employed persons above the age of fifteen years	number
12.33	Number of unemployed persons above the age of fifteen years	number
12.34	Gini Coefficient- Inequality Index based on Consumption Expenditure	index

2. URBAN FORM,PUBLICSPACE & SAFETY INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
1.1	Safety	Percentage of city roads covered with street lighting (%)	$[\text{Length of roads (in km) within ULB covered by streetlights} / \text{Total length of roads within ULB}] * 100$	Percentage (%)
1.2	Urban form	Percentage change in the built-up area per capita in the city in between year 2000 and year 2014 (%)	$[\{(\text{Built-up area of the city in year 2014} * 10^6) / \text{Population of the city in year 2014}\} / \{(\text{Built-up area of the city in year 2000} * 10^6) / \text{Population of the city in year 2000}\} - 1] * 100$	Percentage (%)
1.3	Urban form	Percentage of agriculture use area proposed for future developable uses in the Master Development Plan (%)	$[(\text{Area under agriculture use as per the existing land use plan} - \text{Area under agriculture use in the proposed land use plan}) / \text{Area under agriculture use as per the existing land use plan}] * 100$	Percentage (%)
1.4	Public space accessibility	Percentage of population within 500m distance to public park/open space (%)	$[\text{Population residing within a distance of 500 m from the nearest park, public open space} / \text{Population of the city}] * 100$	Percentage (%)
1.5	Environment	Open space (includes recreational space, organised green, other common open spaces) per capita (sqm/person)	$[\text{Total area under open spaces (includes recreational space, organised green, other common open spaces such as vacant lands/ open spaces including flood plains, forest cover etc. in plain areas.) in the city} * 1000000 / \text{Population of the city}] * 100$	Square metre per person (sqm/person)
1.6	Safety	Percentage share of pedestrian fatalities in total fatalities (motorized/non-motorized transport) in road accident during a year (%)	$[\text{Total number of fatalities where pedestrians were involved in road accidents in the city} / \text{Total number of fatalities recorded in road accidents within the city}] * 100$	Percentage (%)
1.7	Public space accessibility	Percentage of recreational and open space (includes stadiums, theme parks, playgrounds, maidan) of total developable area (%)	$[\text{Area under parks and open space use in the city} / \text{Total developable area in the city}] * 100$	Percentage (%)
1.8	Safety	Rating of safety standards of the city	NA	Rating
1.9	Public spaces	Amount spent in operations and maintenance per square metre area of parks in the city by the ULB (INR per sqm)	Total expenditure made by the ULB in a financial year towards operation and maintenance of parks in the city/ Total area (in sqm) under parks within ULB	Indian Rupees (INR) per sqm

3. HOUSING AND PROPERTY INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
2.1	Slums	Percentage of urban households living in slums/squatter settlements (%)	$[\text{Households residing in slums or squatter settlements in the city} / \text{Total households in the city}] * 100$	Percentage (%)
2.2	Slums	Percentage of city area under slums/squatter settlements (%)	$[\text{Area under slums or square settlements in the city} / \text{Total area of the city}] * 100$	Percentage (%)
2.3	Ownership	Percentage of owner-occupied housing units to total housing units (%)	$[\text{Number of households in the city living in owner-occupied housing units} / \text{Total number of housing units in the city}] * 100$	Percentage (%)
2.4	Affordability	Percentage of households spending greater than 30 percent of their income on accommodation expenses (%)	$[\text{Population spending greater than 30\% income on accommodation expenses} / \text{Total population of ULB}] * 100$	Percentage (%)
2.5	Overcrowding	Percentage of households living in one room (%)	$[\text{Number of households within ULB with one room} / \text{Total number of households in the ULB}] * 100$	Percentage (%)

4. WATER INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
3.1	Coverage	Percentage of households with piped connection (%)	$[\text{Total Households with piped water connection} / \text{Total number of Households in the city}] * 100$	Percentage (%)
3.2	Quality	Percentage of water samples in a year that comply with national potable water quality standards (%)	$[\text{Number of samples that meet the specified potable water standards in the month} / \text{Total number of water samples collected in a month}] * 100$	Percentage (%)
3.3	Resource management	Existence of water resources assessment and management Plan prepared in the last five years	NA	NA
3.4	Resource management	Extent of Non-Revenue Water (%)	$[(\text{Total water produced and put into the transmission and distribution system} - \text{Total water sold}) / \text{Total water produced and put into the transmission and distribution system}] * 100$	Percentage (%)
3.5	Coverage	Water supply per capita (LPCD)	$[\text{Total water supplied in the city per day} / \text{Total population of the city}]$	Litres per capita per day (lpcd)
3.6	Coverage	Extent of metering of water supply connections (%)	$[\text{Total number of functional metered water supply connections in the city} / \text{Total number of water connections in the city}] * 100$	Percentage (%)

5. SANITATION INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
4.1	Coverage efficiency	Percentage of properties in the ULB connected to sewerage network (%)	$[\text{Total number of properties with direct connection to the sewerage network} / \text{Total number of properties in the city}] * 100$	percentage (%)
4.2	Coverage efficiency	Proportion of households having access to toilet facility (%)	$[\text{Total number of households with access to toilets} / \text{Total number of households in the city}] * 100$	percentage (%)
4.3	Treatment efficiency	Percentage of sewage treated before discharge into surface water bodies (%)	$[\text{Total sewage treated in the city} / \text{Total sewage generated in the city}] * 100$	percentage (%)
4.4	Treatment efficiency	Percentage of wastewater samples that passed the specified secondary treatment standards from the total samples collected in a year (%)	$[\text{Total treated effluent wastewater samples that passed the specified secondary treatment standards in a year} / \text{Total treated effluent wastewater samples collected in a year}] * 100$	percentage (%)
4.5	Treatment efficiency	Percentage of wastewater received at the treatment plant that is recycled or reused after appropriate treatment for various purposes (%)	$[\text{Total wastewater recycled or reused after appropriate treatment} / (0.8 * \text{Total water supplied in the city per day})] * 100$	percentage (%)
4.6	Treatment efficiency	Percentage of city sewage that is treated in a sewage treatment plant (%)	$[\text{Total sewage treatment capacity of the city} / \text{Total sewage generated in the city}] * 100$	percentage (%)
4.7	Treatment efficiency	Percentage of industries complying with waste water treatment as per CPCB norms (%)	$[\text{Total number of industries complying with waste water treatment as per CPCB norms} / \text{Total number of industries in the ULB that require installation of waste water treatment plant}] * 100$	percentage (%)
4.8	Treatment efficiency	Existence of FSSM Action plan or notified San-benchmarks, byelaws/ guidelines/ policy notes by the ULB/Development Authority	NA	Yes / No
4.9	Coverage efficiency	Percentage of Public Toilets (PTs) mapped on Google Maps (%)	$[\text{Total number of Public Toilets mapped on google maps} / \text{Total number of Public Toilets in the ULB}] * 100$	percentage (%)

6. WASTE MANAGEMENT INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
5.1	Processing	Percentage of city's wet waste processed (%)	$[\text{Total quantity of wet waste processed by the ULB}] / [\text{Total quantity of wet waste collected by the ULB}] * 100$	percentage (%)
5.2	Processing	Percentage of the city's dry waste that is separated and classified for recycling/material recovery (%)	$[\text{Total quantity of dry waste that is separated and classified for recycling/material recovery by the ULB}] / [\text{Total quantity of dry waste collected by the ULB}] * 100$	percentage (%)
5.3	Processing	Percentage of the city's solid waste that is used for energy recovery (incineration) or co-processing (%)	$[\text{Total quantity of wet waste processed by the ULB}] / [\text{Total quantity of wet waste collected by the ULB}] * 100$	percentage (%)
5.4	Disposal	Percentage of the city's municipal solid waste that is disposed off in open dumps / controlled dumps, water bodies / is burnt (%)	$[\text{Total quantity of dry waste that is separated and classified for recycling/material recovery by the ULB}] / [\text{Total quantity of dry waste collected by the ULB}] * 100$	percentage (%)
5.5	Processing	Percentage of waste remediated in the city (%)	$[\text{Total quantity of waste used for energy recovery (incineration) by the ULB}] / [\text{Total Municipal Solid Waste generated in the city}] * 100$	percentage (%)
5.6	Collection efficiency	Percentage of wards practicing source segregation of waste which is maintained till processing/ disposal site (%)	$[\text{Total Municipal Solid Waste generated in the city} - \text{Total waste processed}] / [\text{Total Municipal Solid Waste generated in the city}] * 100$	percentage (%)
5.7	Monitoring mechanisms	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	Availability/status of remediation and scientific landfill closure of existing dumpsites undertaken by the ULB	unitless numeric value
5.8	Inclusiveness	Percentage of informal waste pickers integrated into sustainable SWM systems (%)	$[\text{Number of wards in the city in which segregation of waste is undertaken at the source of generation and maintained till processing or disposal}] / [\text{Total number of wards}] * 100$	percentage (%)
5.9	Processing	Percentage of C&D waste collected of the total C&D waste generated (%)	Availability of ICT based Monitoring Mechanism for SWM in place by the ULB. Each question carries a score.	percentage (%)

Number	Sub-theme	Indicator	Formula	Unit
			ULB that answers in the affirmative for each question will be scored 1; otherwise 0. Total would be 3	
5.10	Processing	Percentage of hazardous waste processed (%)	$\frac{[\text{Total Informal Waste Pickers formally integrated into Sustainable Livelihoods}]}{[\text{Total informal waste pickers in the city (Internal \& Outsourced)}]} \times 100$	percentage (%)
5.11	Generation	Total solid waste generation per capita per day (kg/capita/day)	$\frac{[\text{Total quantity of C\&D waste that is separated and classified for utilisation/processing}]}{[\text{Total Construction \& Demolition Waste generated}]} \times 100$	kilograms per capita per day (kg/capita/day)
5.12	Collection efficiency	Percentage Coverage of wards under Door-To-Door Collection System (%)	$\frac{[\text{Total quantity of hazardous waste processed in the city}]}{[\text{Total Domestic Hazardous waste collected}]} \times 100$	percentage (%)

7. TRANSPORTAION INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
6.1	Coverage	Percentage of population within 500m distance to public transport stops (%)	$\frac{[\text{Population residing within a distance of 500 m from the nearest public transit stop within the city}]}{\text{Total population of the city}} \times 100$	percentage (%)
6.2	Coverage	Kilometres of bicycle path per 100,000 population (km)	$\frac{[\text{Total length of the city roads with dedicated bicycle tracks}]}{\text{Total population of the city}} \times 100000$	kilometres (km)
6.3	Coverage	Percentage of major roads covered with footpath (footpath wider than 1.2 meters) within the city (%)	$\frac{[\text{Length of footpath present on one side of the major road} + (2 \times \text{Length of footpath present on both sides of major road})]}{2 \times \text{Length of major road network in the city}} \times 100$	percentage (%)
6.4	Coverage	Rate of increase in public transportation ridership (%)	$\frac{[(\text{Total public transport ridership in current year} / \text{Total public transport ridership in previous year}) - 1]}{1} \times 100$	percentage (%)
6.5	Clean Technology	Percentage of shared vehicles that operate on clean fuels like CNG, LPG, biofuels or are hybrid or electric vehicles (%)	$\frac{[\text{Total number of shared vehicles on clean technologies}]}{\text{Total number of shared vehicles in the city}} \times 100$	percentage (%)
6.6	Coverage	Road density (km/sqkm)	$\frac{[\text{Total road length in the city}]}{\text{Total area of the city}}$	kilometre per square kilometre (km/sqkm)

Number	Sub-theme	Indicator	Formula	Unit
6.7	Road Congestion	Average travel speed in major roads of the city (kmph)	Average speed of travel in arterial & sub arterial roads during peak hours	kilometres per hour (kmph)
6.8	Non-motorised transport	Percentage share of NMT in commuting (cycling and walking) (%)	Percentage share of population using Cycles+Percentage share of population commute on foot	percentage (%)
6.9	Coverage	Street intersection density (intersections/sqkm)	[Number of intersections in the city/ Total area of the city]	number per square kilometre (number/sqkm)
6.10	Coverage	Kilometres of road with public transit per 100,000 population (km)	[Total length of public transport route within the city/ Total population of the city]*100000	kilometres (km)
6.11	Safety	Fatal and serious injuries in road accidents per lakh population (number)	(Total number of fatalities recorded in road accidents within the city+Serious injuries recorded in road accidents within the city)/Population of the city*100000	number per lakh population (number/100,000 population)
6.12	Universal Accessibility	Accessibility of differently-abled groups to Public Buses (%)	[Number of buses as per urban bus specification II (2013) / Total number of buses in the city]*100	percentage (%)
6.13	Coverage	Workplace accessibility within 30 minutes of transit (%)	[Population residing within a travel time of 30 min from work place within the city/ Total population of the city]*100	percentage (%)
6.14	Coverage	Percentage of total area of ULB allocated to streets (%)	[Area under roads within the city / Total area of city]*100	percentage (%)

8. SOCIAL FACILITIES & SERVICES INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
7.1	Health	Percentage of population within 800m distance to healthcare facilities (public/private) (%)	$[\text{Population residing within a distance of 800 m from the nearest healthcare facility within the city} / \text{Total population of the city}] * 100$	percentage (%)
7.2	Education	Percentage of females of ages 7 and above who are literate (%)	$[\text{Number of literate females aged 7 and above in the city} / \text{Total female population aged 7 and above of city}] * 100$	percentage (%)
7.3	Education	Percentage of population within 800m distance to primary/secondary schools (public/private) (%)	$[\text{Population residing within a distance of 800 m from primary or secondary school within the city} / \text{Total population of the city}] * 100$	percentage (%)
7.4	Demographic	Change in decadal population growth rate (1991-2001 and 2001-2011) (%)	$((\text{Population of the city in 2011} - \text{Population of the city in 2001}) / \text{Population of the city in 2001}) - ((\text{Population of the city in 2001} - \text{Population of the city in 1991}) / \text{Population of the city in 1991}) * 100$	percentage (%)
7.5	Demographic	City Level Dependency Ratio (%)	$[(\text{Number of people aged 0-14} + \text{Number of people aged 65 and above}) / \text{Number of people aged 15-64}] * 100$	percentage (%)
7.6	Health	Under-five mortality rate per 1000 births (number)	$[\text{Number of deaths of children under the age of five in the reference year} / \text{Total number of live births in the reference year}] * 1000$	Number
7.7	Health	Bed density in public and private hospitals (Hospital beds per 10,000 residents) (number)	$[\text{Total number of beds in public and private hospitals in the ULB} / \text{Total population of ULB}] * 10000$	Number
7.8	Health	Percentage reduction in prevalence of vector borne diseases (malaria, dengue) over the previous year (%)	$((\text{Total number of reported cases of Malaria and Dengue in the city in previous year} - \text{Total number of reported cases of Malaria and Dengue in the ULB in reference year}) / \text{Total number of reported cases of Malaria and Dengue in the city in previous year}) * 100$	percentage (%)
7.9	Health	Percentage reduction in prevalence of waterborne diseases (Diarrhoea, typhoid) over the previous year (%)	$((\text{Total number of reported cases of Diarrhoea and Typhoid in the city in previous year} - \text{Total number of reported cases of Diarrhoea and Typhoid in the ULB in reference year}) / \text{Total number of reported cases of Diarrhoea and Typhoid in the city in previous year}) * 100$	percentage (%)
7.1	Education	Percentage of schools with Access to Digital Education (%)	$[\text{Number of schools within the city with access to digital education} / \text{Total number of schools in the city}] * 100$	percentage (%)

7.11	ICT	Percentage of mobile network, by 3G and 4G technology subscriptions (%)	[Total number of mobile phones with 3G or 4G subscriptions till reference year/ Total population of ULB]*100	percentage (%)
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9. ENVIRONMENT & ECOLOGY INDICATORS

Number	Sub-theme	Indicator	Unit
8.1	Pollution and Contamination	Clean Air Action Plan (Planning and Implementation)	NA
8.2	Pollution and Contamination	Existence of a GHG emissions measurement system with a monitoring system (Y/N)	NA
8.3	Pollution and Contamination	Total annual GHG emissions (MtCO₂e)	million metric tonnes of carbon dioxide equivalent (MtCO ₂ e)
8.4	Ecosystem Services	Proportion of Tree Cover to the total ULB area(%)	percentage (%)
8.5	Ecosystem Services	Extent to which city is acting for protection, conservation and management of urban biodiversity	NA
8.6	Green Buildings	Number of structural and financial incentives for green buildings implemented (number)	NA
8.7	Pollution and Contamination	Annual mean Air Quality Index(AQI) (number)	0
8.8	Pollution and Contamination	Annual CO₂ equivalent (GHG) emissions per capita (MtCO₂e/capita)	million metric tonnes of carbon dioxide equivalent per capita (MtCO ₂ /capita)
8.9	Pollution and Contamination	Annual CO₂ equivalent emissions from the transportation sector (MtCO₂e)	million metric tonnes of carbon dioxide equivalent (MtCO ₂ e)
8.10	Pollution and Contamination	Biochemical Oxygen Demand 3 day, 270C (mg/l)	
8.11	Ecosystem Services	Area under ULB covered by trees per inhabitant (sqm per person)	number
8.12	Ecosystem Services	Is there a land use plan that includes zoning with environmental protection and preservation zones? (Y/N)	NA
8.13	Pollution and Contamination	Annual mean levels of PM₁₀ (µg/m³)	micrograms per cubic meter (µg/m ³)
8.14	Pollution and Contamination	Annual mean levels of PM_{2.5} (µg/m³)	micrograms per cubic meter (µg/m ³)
8.15	Pollution and Contamination	Annual concentration of NO₂ (µg/m³)	micrograms per cubic meter (µg/m ³)
8.16	Pollution and Contamination	Average daily concentration of SO₂ (µg/m³)	micrograms per cubic meter (µg/m ³)
8.17	Pollution and Contamination	Total annual methane emissions (MtCO₂e)	million metric tonnes of carbon dioxide equivalent (MtCO ₂ e)
8.18	Pollution and	Existence, monitoring and enforcement	NA

Contamination	of regulations on noise pollution (Y/N)
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10. CLEAN ENERGY INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
9.1	Energy Coverage	Percentage of the city's households using LPG/PNG for cooking (%)	[Number of households in the city having LPG/PNG connection/ Total number of households in the city]*100	percentage (%)
9.2	Energy Efficiency	Percentage of total electrical energy in the city derived from renewable sources (%)	[0.8* (Total electrical energy consumption (in kWh) from all on-grid renewable energy sources and is used in the city/ Total electricity consumption (in kWh) in the city)]+ [0.2* (Cumulative installed capacity (in KW) of off grid renewable energy sources for self consumption/ Total connected electrical load (in KW) in the city)]*100	percentage (%)
9.3	Energy Efficiency	Proportion of population in the city who have access to renewable energy (%)	[Total population using clean fuel technologies / Total population in the city]*100	percentage (%)
9.4	Energy Coverage	Percentage of energy-efficient street lighting in the city (%)	[(Total number of energy efficient street lights + renewable energy operated street lights in the city)/ Total number of street lights in the city]*100	percentage (%)
9.5	Energy Usage	Energy use per capita (kWh)	[Total electric power consumption in residential area (in kWh)/ Total population of the ULB]*100	kWh
9.6	Energy Coverage	Percentage of the city's households with an authorized connection to electrical energy (%)	[Number of households in the city having an authorized electricity connection / Total number of households in the ULB]*100	percentage (%)
9.7	Energy Regulations	Do existing building codes consider eco-friendly techniques and/or the use of local/renewable material? (Y/N)	Yes/No	NA
9.8	Energy Reliability	System Average Interruption Frequency Index (SAIFI) (number)	NA	number

11. DISASTER RISK MANAGEMENT INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
10.1	Disaster Preparedness	Presence of City Disaster Management Plan prepared / updated in last five years	NA	NA
10.2	Disaster Preparedness	Existence of hazard vulnerability maps/risk maps (at city level) prepared / updated in the last five years for the main hazards threatening the city	NA	NA
10.3	Disaster Preparedness	Percentage of households at risk due to placement in areas of non-mitigable risk within the ULB (%)	$[\text{Number of households at high risk to natural disasters in the ULB} / \text{Number of households in the ULB}] * 100$	percentage (%)
10.4	Disaster Preparedness	Percentage of buildings within 4km distance to fire service facility (%)	$[\text{Number of buildings located within a distance of 4 km from a fire service facility} / \text{Total number of buildings in the ULB}] * 100$	percentage (%)
10.5	Disaster Preparedness	Presence of hazard early warning systems linked with command control system	NA	NA
10.6	Disaster Preparedness	Existence of urban flood / water stagnation risk assessment and management plan	NA	NA

12. GOVERNANCE & DATA MANAGEMENT INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
11.1	Effectiveness	Number of planners per capita (number per 14000)	$[\text{Number of planners in the ULB} / \text{Total city population}] * 14000$	number per 14000
11.2	Effectiveness	Years since enforced master plan/development plan was last reviewed and updated (number of years)	$[\text{Current year}] - [\text{Year in which enforced master plan was last reviewed and updated}]$	year
11.3	Effectiveness	Number of services being	NA	number

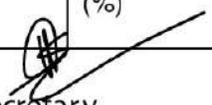
Number	Sub-theme	Indicator	Formula	Unit
		managed through command and control system in the ULB (eg: SCADA, ICCC etc) (number)		
11.4	Effectiveness	Number of functions being implemented by ULB out of 18 functions stipulated in the Twelfth schedule of Indian constitution (number)	NA	number
11.5	Data Management	Existence of Geographic information System (GIS) based Master Plan for the city	NA	NA
11.6	Accountability	Environmental status report with action plans published by the ULB for the last three years (Y/N)	Yes / No	NA
11.7	Capacity Building	Percentage of total staff trained during the year in any of the ULB functionary domains (%)	$[\text{Total ULB staff trained during the year} / \text{Total staff in the ULB}] * 100$	percentage (%)
11.8	Effectiveness	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)	NA	number
11.9	Transparency	Local development control regulations and master plan / development plan are accessible completely through the web	NA	NA
11.10	Participation (in planning process)	Number of stipulated committees in the ULB: 1) Municipal Committee/Council 2) Ward Committee 3) Metropolitan Planning Committee / District Planning	NA	number

Number	Sub-theme	Indicator	Formula	Unit
		Committee 4) Project Coordination /Monitoring Committee 5) Town Vending Committee (Street vendors) 6) Heritage Conservation Committee		
11.11	Participation (in planning process)	ULB's citizen charter and appeal mechanisms	NA	NA
11.12	Data Management	Presence of City data officer (Y/N)	Yes / No	NA
11.13	Representation	Proportion of Women councillors in Municipal Council (%)	[Number of women councillors / Total number of councillors in the municipal council]*100	percentage (%)
11.14	Data Management	Digital Governance: Presence on Open Data Portal (Y/N)	Yes / No	NA

13. FINANCE & ECONOMY INDICATORS

Number	Sub-theme	Indicator	Formula	Unit
12.1	Finance	Credit rating of the ULB (score)	NA	Credit Rating Score
12.2	Finance	Total property tax collected as a percentage of total property tax billed in the same financial year (%)	[Total Property Tax collected in the financial year/Total Property Tax billed in the financial year]*100	percentage (%)
12.3	Finance	Financial dependency: Percentage of grants received from central and state governments to total revenue (%)	[Grants received from State and Central Government / Total Revenue]*100	percentage (%)
12.4	Economy	Growth rate of GDP per capita (%)	((GDP (Price deflated) of the city in 2019/Population of the city in 2019)/(GDP (Price deflated) of the city in 2015/Population of the city in 2015)-1)*100	percentage (%)
12.5	Finance	Change in Own Source Revenue (number of years with OSR > 20%)	[Total Taxes Collected+User Charges & User Fee +Recurring Revenue] / [Total Revenue]*100	percentage (%)
12.6	Finance	Operating margin: Difference in revenue and expenditure in the financial year (INR in Lakhs)	[Total revenue - Total expenditure]	INR in Lakhs
12.7	Finance	Total cost of annual debt service as a percentage of expenditure (%)	[Total annual debt service payments (Loan interest & repayment) /Total expenditure]*100	percentage (%)
12.8	Finance	Percentage of debt/loans in overall budget allocation (%)	[Total Loans & Debt / Total budgeted spending]*100	percentage (%)
12.9	Finance	Properties covered under the	[Number of properties covered	percentage

Number	Sub-theme	Indicator	Formula	Unit
		tax net expressed as percentage of total properties within the municipality (%)	under the tax net / Total properties within the municipality on GIS/cadastral base]*100	(%)
12.10	Finance	Efficiency of Capital expenditure spending: Actual capital expenditure spent expressed as a percentage of the budgeted capital expenditure in the financial year (%)	[Actual capital expenditure spent / Capital expenditure budgeted for the same FY]*100	percentage (%)
12.11	Finance	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 (%)	[Revenue Collected in Water Supply / Operating expenditure in Water Supply]*100	percentage (%)
12.12	Finance	Cost Recovery in Sanitation: Total operating revenues expressed as a percentage of the total operating expenses incurred towards sanitation services in the financial year (%)	[Revenue Collected in Sanitation / Operating expenditure in sanitation]*100	percentage (%)
12.13	Finance	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 (%)	[Revenue Collected in Waste Management / Operating expenditure in Waste Management]*100	percentage (%)
12.14	Economy	Unemployment rate of persons of age 15 years and above (%)	[Number of unemployed persons / (Number of employed persons + Number of unemployed persons)*100	percentage (%)
12.15	Economy	Inequality Index based on Consumption Expenditure- Gini Coefficient (score)	Calculated using Lorenz curve Numerator: area Between the Lorenz curve of the distribution and the uniform distribution line Denominator: area under the uniform distribution line	score
12.16	Economy	Percentage of workforce employed in the service sector (%)	[Workers employed in the service sector / Total workforce]*100	percentage (%)
12.17	Finance	Total capital expenditure as percentage of total expenditure (%)	[Capital expenditure / Total expenditure]*100	percentage (%)
12.18	Economy	GDP density (GDP per sqkm of the built-up area of the local government) (INR per sqkm)	[GDP (Price deflated)] / [Total Builtup area within the city]	INR per sqkm
12.19	Economy	Informal employment as percentage of total employment (%)	[Workforce without any social insurance / Total workforce]*100	percentage (%)


Secretary

Kalinganagar Development Authority

