

Appendix B. Data Requirement of IMIS

	SN	Datase t	Descri ption	Value Propos ition	Data Type	CWIS Outco me (O)/Fu nction (F)	Datase t Creatio n Year	Planni ng	Manag ement, Monito ring & Evalua tion
URBAN DATA	1	Ward Bounda ry	Ward level adminis trative bounda ry.	Helps in plannin g, assessi ng, and monitor ing the sanitati on situatio n in ward level.	Spatial	Resourc e plannin g & manage ment (F)		M	M
	2	Adminis trative Zone Bounda ry	Bounda ry of adminis trative zones (wards organiz ed into zones) for delivery of services .	Helps in plannin g, assessi ng, and monitor ing the sanitati on situatio n in zone level.	Spatial	Resourc e plannin g & manage ment (F)		M	M

3	Land use	Provide s urban agglom eration of the town and the mappin g across the town of the purpose s the land serves.	Provide s urban agglom eration of the town which helps to identify the areas which are environ mental or public health sensitiv e but vulnera ble if sanitati on system is not manage d properl y. Guides the prioritiz ation of the areas for interve ntions/ system s/ technol ogies, identific ation of areas for treatme nt plants that have minimu	Spatial	Safety (O), Sustain ability (O), Resourc e plannin g & manage ment (F)	M	M
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4	Soil	Soil map image in raster that shows types of soil in different part of the town	Provides information on the permeability rates and safe bearing capacity of the soils that will guide the planning and design of sanitation infrastructure systems.	Spatial	Safety (O), Resource planning & management (F)		D	D
5	Contour	Presents topography of the town with clear elevation levels	Guides the choice of sanitation solution and the planning and design of the solution with optimal investments.	Spatial	Safety (O), Sustainability (O), Resource planning & management (F)		M	D

6	Water table	Water table map in raster image that shows ground water table in different parts of the town	Provide s geographic information of areas where ground water is susceptible to pollution due to insanitary/unsafe containment units, unregulated discharge of wastewater. Ground water table information guides the strategies for improved wastewater management of sensitive zones/locations, helps in the strategic planning and design	Spatial	Safety (O), Sustainability (O), Resource planning & management (F)		D	D
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7	Waterlogged area	Areas in town where water gets logged frequently	Guides in developing risk reduction and preparedness strategies when planning, designing, and managing the sanitation systems and services as well as storm water management	Spatial	Safety (O), Sustainability (O), Resource planning & management (F)		D	M
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Area where environmental sensitive activities have been taken	Areas in town which have been used to manage or dispose municipal solid waste such as landfill sites, waste collection points, waste disposing site, dens toilet effluent discharged area, open defecation area, etc.	Helps to demarcating buffer zones around these areas where residential habitations need to be avoided and implementing environmental safeguards while planning, designing the location of sanitation treatment plant should be in conformity of such environment sensitive area.	Spatial	Safety (O), Sustainability (O), Resource planning & management (F)		D	D
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9	Population density	Mapping of the population density in different parts of the town.	Helps in planning and making decisions for sanitation system – sewerage or non-sewerage and technology selection	Spatial	Equity (O), Safety (O), Sustainability (O), Resource planning & management (F)		M	D
10	Settlements	Planned (formal) / unplanned (informal) residential areas including slums and low-income settlements, with their demographic, socio-economic status.	Provides detailed geographical information of the planned / unplanned residential areas, which supports in contextualizing the sanitation solutions vis-a-vis their settlement pattern	Spatial	Equity (O), Safety (O), Sustainability (O), Resource planning & management (F)		M	G

Low Income Settlement Area	Low Income Settlement Area with attributes information such as economic condition, households, population, sanitation situation, drinking water situation and waste management situation, public finance support received for settlement development, gender intentional initiatives for sanitation service, incentives receive d etc	The demographical, socio-economic, and baseline status of sanitation and other basic services in low-income settlements will help with the prioritization of the interventions, planning, design & management of the gender intentional and socially inclusive solutions and strategizing the sustainable solutions.	Spatial	Equity (O), Safety (O), Sustainability (O), Accountability (F), Resource planning & management (F)
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Building Footprint	Building footprints with its information such as house number, property ID, Tax code, owner name, Contact Number, SWM customer code, FSM customer code, sewerage customer code, water supply customer code, road network code, sewerage network code, drainage network code, SWM service sector code, code of the associated containment	Provides details information about buildings – where a building is located and how much area has been occupied, building topology, functional use, the types of sanitation system (sewerage or onsite), municipal services receiving, access road, associated sewerage, storm drain, water supply line and corresponding service area if connect	Spatial	Equity (O), Safety (O), Sustainability (O), Accountability (F), Resource planning & management (F)		M	M
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13	Road Network	Information about roads such as road name, hierarchy, surface type, width, etc.	Helps with planning and design of sewer network, desludging route, storm water management, and green infrastructure.	Spatial	Safety (O), Sustainability (O), Resource planning & management (F)		M	M
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Point of Interest s (POIs)	Locations and name of city offices, ward office, public places, market, postal service, hospital, health post, buildings, public toilet, rehabilitation center, fire brigade, tourist information center, business complex, shopping mall, police station, parking place, health and fitness, office, etc.	Helps in assessing the need to provide public sanitation facilities in these public places. Helps to understand the concentration of floating populations and design the sanitation facility. Helps in exploring and promoting technology option (e.g., development of DEWATS facility to cater the treatment of large volume wastewater generations, particul	Spatial				
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15	Water bodies	Water bodies area covered by Rivers, Lakes, Ponds, etc.	Guides in developing risk reduction and preparedness strategies when planning, designing, and managing the sanitation systems and services as well as storm water management.	Spatial	Safety (O), Sustainability (O), Resource planning & management (F)		M	M
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SANITATION	16	Containments	Location of containment with its unique id, associated building, containment type (septic tank/holding tank/pit), containment size(m ³), associated road code, last desludging date, population served, public finance support received, etc.	Provides detailed information about every containment in a town, which helps in understanding the number of containments by their types, the total number of populations being served, estimated volume of fecal sludge generated, population served, etc. Understanding the spatial coverage of sanitary that complies with all requirements	Spatial	Equity (O), Safety (O), Sustainability (O), Resource planning & management (F)		D	M
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17	Strom water network	Strom water network with structure type (Pucca, Katcha) , width, status (closed, open), and its outfalls	Provide s information on the areas that are served with sewer network which helps in assessing the areas which are not connect ed to sewer where interve ntions need to be planned for inclusiv e sanitati on. In conjunc tion with building data, it helps to underst and how many building s by type, househ olds and populati on are being served	Spatial	Safety (O), Sustain ability (O), Resourc e plannin g & manage ment (F)	M	M
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18	City water supply areas	Areas in town which are covered by the city water supply.	Provide information about areas served and unserved by city water supply, which will help to understand the quantity and quality of wastewater generated in those areas.	Spatial	Safety (O), Sustainability (O), Resource planning & management (F)		D	D
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19	Public/Community Toilets (PT/CT)	Public services (PT/CT) in the towns with the types of services provided, capacity, users (male/female), service provider, public finance support received, gender intentional initiatives in design, service fee, incentives received, etc.	Provides location information about centers that deliver public services which will also help in assessing the need to provide public sanitation facilities in these public places. Help to understand the concentration of floating populations and design the sanitation facility. Helps in exploring and promoting technology options (e.g., development of DEWATS	Spatial	Equity (O), Safety (O), Sustainability (O), Resource planning & management (F)	M	M
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20	Treatm ent Plants	Locatio ns, capacit y, etc. of WWTP and FSTPs.	Provide s geogra phic location and informa tion about Treatm ent Plants and helps in proximi ty underst anding of treatme nt plants from town settlem ents and various land uses. Helps in plannin g and decisio n- making process es such as plannin g co- treatme nt of FS in the STP.	Spatial	Equity (O), Safety (O), Sustain ability (O), Resourc e plannin g & manage ment (F)		M	M
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21	Landfill site	Landfill sites with their area, capacity, etc.	Provide information such as collection frequency and service providers of areas. Service area in conjunction with building data helps to estimate the volume of waste generated from the service area. Helps to conduct a feasibility study for implementing different technologies such as co-composting of SW with FS is feasible based on the	Spatial	Safety (O), Sustainability (O), Resource planning & management		D	M
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22	Water borne disease hotspot	Hotspot of water-borne diseases that occurred in the town in last 5 years.	Helps to know areas vulnerable to unmanaged sanitation and monitor and evaluation of sanitation intervention.	Spatial	Safety (O), Responsibility (F), Accountability (F)		D	D
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REVENUE	23	Tax zone	Tax zone with tax rate and status of revenue collection in different tax and services provided by Pourashava.	Provide s tax rates for the different areas in the town. Tax zone in conjunction with the status of property tax collection, service fee collection, and settlement data help in fixing the tariff for service and developing strategies for collecting service fees for efficient and sustainable service delivery .	Spatial	Equity (O), Sustainability (O), Resource planning & management (F), Responsibility (F), Accountability (F)		D	D
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SANITIO N BUSINE SS DATA	24	Service provide r	Town inhouse unit or outsour ced compan ies providin g sanitati on service and the gender intentio nal policy, benefits , and incentiv es of service provide rs.	Provide s informa tion about service provide rs that are in- house units or section s of LG or outsour ced compan ies includin g their informa tion about their coverag e, capacit y, infrastr ucture availabl e for providin g service incentiv es, penaltie s. Provide s informa tion about targets, the status of perform ance, incentiv es, penaltio	Spatial	Equity (O), Safety (O), Respon sibility (F), Account ability (F), Sustain ability (O),		D	M
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25	Emptying and Transportation Infrastructure and Services	Service providers' information including human resources and vehicle inventory (quantity, size, service status).	Helps to understand the transportation infrastructure available and their status.	Non-spatial	Equity (O), Safety (O), Sustainability (O), Resource planning & management (F), Accountability (F)		M	M
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26	Customer data	Database of houses that are receiving sanitation services, water supply services, SWM services, etc.	Provides information about the buildings and containments which have received service. Helps in planning and developing different strategies for planning, managing, and M&E of the systems and services.	Non-spatial	Equity (O), Safety (O), Sustainability (O)		D	M
27	Customer feedback data	Customer's feedback about service after desludging the containment.	Helps in management and M&E of the sanitation service.	Non-spatial	Equity (O), Safety (O), Sustainability (O), Responsibility (F), Accountability (F)		D	M

28	Public/Community Toilets (PT/CT) service feedback	User's feedback on PT/CT	Helps in management and M&E of the public service	Non-spatial	Equity (O), Safety (O), Sustainability (O), Responsibility (F), Accountability (F), Resource planning & management (F)		D	M
29	Desludging service feedback	Customer's feedback about the desludging service	Helps in formulating strategies for increasing efficiency of service delivery	Non-spatial	Equity (O), Safety (O), Sustainability (O), Resource planning & management (F), Accountability (F)		D	M

30	Fecal Sludge Data	Fecal sludge collecte d, treated, and reused records maintai ned by the town for differen t sites		Non- spatial	Equity (O), Safety (O), Sustain ability (O), Resourc e plannin g & manage ment (F), Account ability (F)		D	M
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