

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 |
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| 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 |

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| 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 |

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| 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 |

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| Low Income Settlem ent Area | Low Income Settlem ent Area with attribut es informa tion such as econom ic conditio n, househ olds, populati on, sanitati on situatio n, drinking water situatio n and waste manage ment situatio n, public finance support receive d for settlem ent develop ment, gender intentio nal initiativ es for sanitati on service, incentiv es receive d, etc | The demogr aphical, socio- econom ic, and baselin e status of sanitati on and other basic services in low- income settlem ents will help with the prioritiz ation of the interve ntions, plannin g, design & manage ment of the gender intentio nal and socially inclusiv e solution s and strategi zing the sustain able solution s. | Spatial | Equity (O), Safety (O), Sustain ability (O), Account ability (F), Resourc e plannin g & manage ment (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 detail 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 names 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, particular | 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. | Provide 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 |

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| 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 |

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| 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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