

Appendix A. DATA DICTIONARY FOR GIS- DATABASE

SN	Feature Description	Feature Geometry	Attributes	Priority	Remarks
1	City Boundary	Polygon	<ul style="list-style-type: none"> Total Area in Sq. Km City Name 	High	
2	Ward Boundary	Polygon	<ul style="list-style-type: none"> Ward number Ward area in Sq. Km 	High	
3	Tax Zone	Polygon	<ul style="list-style-type: none"> Tax zone number 	High	
4	Building Footprint	Polygon	<ul style="list-style-type: none"> BIN (Unique Building Identification Number) House Address Holding ID/Tax Code Ward number Owner name Owner gender (Male, Female, Others) Owner contact number Structural type (RCC, Load Bearing with cement mortar, load bearing with mud/lime mortar, wooden/mud/CGI/Temporary, steel structures) Floor counts Building plan area in Sq. m Building Construction year in A.D Use purpose (Residential, commercial, mixed, offices, educational, hospital/clinic, industrial, Assembly) Number of households Male Population Female population 	High	
			<ul style="list-style-type: none"> Others population Differently abled Male population Differently abled Female population Differently abled others population Offices/business names Low Income Household Status Low Income Community Name if Low Income Household Toilet use information (Private, shared, public toilet, community toilet, Open defecation) Toilet counts in the building Toilet connection (Sewer Network, Drain Network, Septic Tank, Pit/ Holding Tank, Onsite Treatment (e.g., Anaerobic Digester/ Biogas, DEWATS), Composting Toilet (e.g., ecosan, UDDT, etc.), Water Body, Open Ground, Shared Septic Tank) Well presence (Yes, No) Distance from the nearest well in meter Road Code Drain code if connected to drain Water supply pipe code if connected to water supply Water supply customer code if connected to water supply Sewer code if connected to sewer Sewerage customer code if connected to sewer Solid waste customer code if availing solid waste 		

			<ul style="list-style-type: none"> Associated House Number/Holding ID/Tax Code Containment type (Septic Tank connected to Sewer Network, Septic Tank connected to Drain Network, Septic Tank connected to Soak Pit, Septic Tank connected to Water body, Septic Tank connected to Open Ground, Septic Tank without Outlet Connection, Septic Tank with Unknown Outlet Connection, Double Pit, Permeable/ Unlined Pit/Holding Tank, Lined Pit connected to a Soak Pit, Lined Pit connected to Water Body, Lined Pit connected to Open Ground, Lined Pit connected to Sewer Network, Lined Pit connected to Drain Network, Lined Pit without Outlet, Lined Pit with Unknown Outlet Connection,) Containment location (Outside/inside the building footprint) Septic tank standard compliance (Yes, No) Containment construction year in A.D Containment emptying status (Yes, No) Containment last emptying year in A.D 		
6	Public/Community toilet	Point	<ul style="list-style-type: none"> Unique Code Associated BIN Ward Number Category (Public/Community) Nearest road distance in meter Separate facility for male and female (Yes, No) No. of male seats No. of female seats Facility for handicapped people (Yes, No) Facility for children (Yes, No) Facility of sanitary supplies and disposal (Yes, No) 	High	
			<ul style="list-style-type: none"> Presence of proper sign (Yes, No) Owner (Municipality, Private) Operator entity name Caretaker name Caretake contact number 		
7	Emptying Service providers	Point	<ul style="list-style-type: none"> Service provider Code (Unique Code) Company name of the service provider Ward number Place Email of the service provider Contact person name Contact person gender (Male, female, others) Contact person contact number 	High	
8	Emptying service providers' employees' inventory	Non-spatial	<ul style="list-style-type: none"> Service provider Code Employee Name Employee gender (Male, Female, Other) Employee contact number Employee type (Driver, helper, supervisor, management, others) Year of experience in years Monthly wage Employment start date Training obtained (Yes, No) 	High	
9	Emptying service providers vehicles inventory	Non-spatial	<ul style="list-style-type: none"> Service provider Code Vehicle plate number Size of desludging vehicle in liters Width of desludging vehicle in meter 	High	
10	Treatment plants	Point	<ul style="list-style-type: none"> Treatment Plant Code (Unique) Treatment plant location 	High	
			<ul style="list-style-type: none"> Ward number Treatment capacity/day in m3 Caretaker name Caretaker gender (Male, female, others) Caretaker number 		
11	Road Network	Line	<ul style="list-style-type: none"> Road Code (Unique code) Road Name Road Hierarchy (Highway, district road, Feeder Road, urban roads, trial) Road Surface Type (Metaled, Earthen, gravel, stone/brick) 	High	

15	Water body	Polygon	<ul style="list-style-type: none"> Water body Code (Unique) Water body Type (River, Pond, canal, lake) Area in sq. m 	High	
16	Environmental sensitive areas (ESAs)	Polygon	<ul style="list-style-type: none"> ESA Code (Unique) ESA type (Landslide/Erosion, flooding, agriculture etc.) 	Low	Through secondary sources only
17	Contour	Line	<ul style="list-style-type: none"> Elevation in Meter 	High	
18	Land cover/Land use map	Polygon	<ul style="list-style-type: none"> Land use class (Built up, commercial, open space, forest, water body,) 	Medium	
19	Low Income Areas	Polygon	<ul style="list-style-type: none"> LIC Code (Unique) Economic situation (Extremely, poor, very poor, moderately poor, poor) 	High	
20	Water table	Polygon		Low	Through secondary sources only
21	Soil	Polygon		Low	Through secondary sources only
22	Point of Interest (POIs)	Point	<ul style="list-style-type: none"> POIs Code (Unique) POIs Type (Educational, health, business, place, ward offices, post offices, petrol stations) 	High	
23	Water borne diseases hotspot	Polygon		Medium	Through secondary sources only
24	Water logging areas	Polygon		Medium	Through secondary sources only
25	Landfill site	Point	<ul style="list-style-type: none"> Coverage area in Sq. Meter 		

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