Appendix A. DATA DICTIONARY FOR GIS-DATABASE

SN	Feature Description	Feature Geometry	Attributes	Priority	Remarks
1	City Boundary	Polygon	• Total Area in Sq. Km • City Name	High	
2	Ward Boundary	Polygon	• Ward number • Ward area in Sq. Km	High	
3	Tax Zone	Polygon	• Tax zone number	High	

4	Building Footprint	Polygon	• 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	High

			• 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/		

5	Containment	Point	• Containment Code (Unique Containment Identification Number)	High	

			• 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		

6	Public/Community toilet	Point	• 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	

			• Presence of proper sign (Yes, No) • Owner (Municipality, Private) • Operator entity name • Caretaker name • Caretake contact number		
7	Emptying Service providers	Point	• 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	• 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	• Service provider Code • Vehicle plate number • Size of desludging vehicle in liters • Width of desludging vehicle in meter	High	

10	Treatment plants	Point	• Treatment Plant Code (Unique) • Treatment plant location	High	
			• Ward number • Treatment capacity/day in m3 • Caretaker name • Caretaker gender (Male, female, others) • Caretaker number		

11	Road Network	Line	• Road Code (Unique code) • Road Name • Road Hierarchy (Highway, district road, Feeder Road, urban roads, trial) • Road Surface Type (Metaled, Earthen, gravel, stone/brick) • Road length in Meter • Road carriage width in Meter • Right of Way	High	
12	Water supply Network	Line	• Water supply Code (Unique) • Water supply pipe diameter in mm • Water supply pipe length in Meter • Corresponding Road Code	Medium	Through secondary sources on

13	Sewer network	Line	• Sewer Code (Unique) • Sewer pipe diameter in mm • Sewer length in Meter • Corresponding Road Code	Medium	Through secondary sources on
14	Drain network	Line	• Drain Code (Unique) • Drain diameter in mm • Drain Cover Type (Open, closed) • Drain Surface Type (Lined, Unlined, Unknown) • Drain length in Meter • Corresponding Road Code	Medium	Through secondary sources on
15	Water body	Polygon	• Water body Code (Unique) • Water body Type (River, Pond, canal, lake) • Area in sq. m	High	

16	Environmental sensitive areas (ESAs)	Polygon	• ESA Code (Unique) • ESA type (Landslide/Erosion, flooding, agriculture etc.)	Low	Through secondary sources on
17	Contour	Line	• Elevation in Meter	High	
18	Land cover/Land use map	Polygon	• Land use class (Built up, commercial, open space, forest, water body,)	Medium	
19	Low Income Areas	Polygon	• LIC Code (Unique) • Economic situation (Extremely, poor, very poor, moderately poor, poor)	High	
20	Water table	Polygon		Low	Through secondary sources on
21	Soil	Polygon		Low	Through secondary sources on

22	Point of Interest (POIs)	Point	• 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 on
24	Water logging areas	Polygon		Medium	Through secondary sources on
25	Landfill site	Point	• Coverage area in Sq. Meter		

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