

LIST OF LAYERS for Aircraft/UAV (Drone) captured LiDAR /ortho image based GIS mapping & Land Use Survey Agency for MPD 2041

Reference:

- All Classes and Sub-Classes are based on the “Formulation of GIS based Master Plan for AMRUT Cities – Design and Standards, March 2016” published by TCPO, MoHUA.
- Land use sub-classes are based on the Zonal Development Plans already approved for all the zones in Delhi.
- Additional layers have been recommended as required for preparation of the GIS Based Master Plan for Delhi-2041

Part 1: Base Layers

Class	Layer No	Sub-Class	Source/remark
Road	1	National Highway	AMRUT
	2	State Highway	AMRUT
	3	Outer Ring Road	MPD
	4	Inner Ring Road	MPD
	5	UER I	Recommended
	6	UER II	Recommended
	7	UER III	Recommended
	8	ROW 60m	MPD
	9	ROW 45m	MPD
	10	ROW 30m	MPD
	11	ROW 24m	Zonal Plans
	12	ROW 18m	Zonal Plans
Rail	13	Broad Gauge	AMRUT
	14	Metre Gauge	AMRUT
	15	MRTS Phase I	Zonal Plans
	16	MRTS Phase II	Zonal Plans
	17	MRTS Phase III	Recommended
	18	MRTS Phase IV	Recommended
	19	RRTS	Recommended
	20	Railway Station	Recommended
	21	Metro Station	Recommended
	22	Multimodal hubs	Recommended
Bridges	23	Culvert	AMRUT
	24	Tunnel	AMRUT
	25	Bridge across river	AMRUT
	26	Under Pass	AMRUT
	27	Rail Bridge across Road	AMRUT
	28	Road Bridge across Rail	AMRUT
	29	Subway	AMRUT
	30	Foot over bridge	AMRUT
Flyovers	31	Flyover and Junctions (cloverleaf interchange etc.)	AMRUT/ Zonal Plans
Water Bodies	32	River	AMRUT/ Zonal Plans
	33	Stream	AMRUT

	34	Canal	AMRUT/ Zonal Plans
	35	Drain	AMRUT/ Zonal Plans
	36	Pond	AMRUT
	37	Lake	AMRUT
	38	Reservoir	AMRUT
	39	Storm water drain	AMRUT/Zonal Plans

Part 2: Urban Land Use and Land Cover

Class	Layer No	Sub-Class	Source/remark
Residential	40	Residential area	AMRUT/ Zonal Plans
	41	Foreign Mission	MPD
	42	Village/Lal Dora	Recommended/ Zonal Plans
	43	Unauthorised built-up	Recommended
	44	Regularized Colony	Recommended
	45	Notified Slum/JJ Cluster	Recommended
	46	Non-notified Slum	Recommended
	47	Resettlement Colony	Recommended
Commercial	48	District Centre	Zonal Plans
	49	Community Centre/ Vegetable Market	Zonal Plans
	50	Non-hierarchical Commercial Centre	Zonal Plans
	51	Retail Business	Zonal Plans
	52	Hotel	Zonal Plans
	53	Wholesale Market	Zonal Plans
	54	Warehousing and Depots	Zonal Plans
	55	Sub Central Business District	Zonal Plans
	56	Service Market	Zonal Plans
	57	CNG Station/Petrol Pump (Existing/Proposed)	Zonal Plans
	58	LPG Godowns/Gas Godowns	Zonal Plans
	59	Informal Bazaar	Zonal Plans
	60	Cold Storage and Oil Depots	Zonal Plans
Mixed Use	61	Mixed Use Street	Recommended
	62	Mixed Use Area	Recommended
Industrial	63	Manufacturing, Service, Light and Repair industries/factories	Zonal Plans
	64	Service Centre	Zonal Plans
Public & Semi-Public	65	College/Technical Education/Professional College/Professional Engineering College/Medical College/University	Zonal Plans
	66	Vocational Training Centre/ITI	Zonal Plans
	67	Education and Research Centre/Institutes	Zonal Plans
	68	School of Physically/mentally challenged	Zonal Plans
	69	School (Primary/Secondary/Sr. Secondary)	Recommendation
	70	Hospital A (500 Beds & Above)	Zonal Plans

	71	Hospital B (201 Beds & Above)	Zonal Plans
	72	Hospital C (101Beds & Above)	Zonal Plans
	73	Hospital D (upto 100 Beds)	Zonal Plans
	74	Nursing Home & Polyclinic	Zonal Plans
	75	Maternity Home	Zonal Plans
	76	Veterinary Hospital	Zonal Plans
	77	Care Centre for Physically/Mentally Challenged	Zonal Plans
	78	Orphanage/Children's centre	Zonal Plans
	79	Facility Centre/Area (Facility Corridor)	Zonal Plans
	80	Disaster Management Centre	Zonal Plans
	81	Cultural Complex/Socio-Cultural Complex	Zonal Plans
	82	Multipurpose Community Hall	Zonal Plans
	83	Old Age home	Zonal Plans
	84	Working men's/women's hostel	Zonal Plans
	85	Recreational Club	Zonal Plans
	86	Science Centre	Zonal Plans
	87	Exhibition cum fair ground/Exhibition Ground	Zonal Plans
	88	District Sports Complex/ Stadium/Divisional Sports Centre/Sports Centre/Play Ground	Zonal Plans
	89	Post Office/Telegraph Office/Head Post Office and Administrative Office	Zonal Plans
	90	Telephone Exchange/Telephone office	Zonal Plans
	91	Transmission site/Centre	Zonal Plans
	92	Police Station	Zonal Plans
	93	Jail/District Jail/Police/Police Lines/Headquarters/Battalion	Zonal Plans
	94	Fire Station /Headquarter	Zonal Plans
	95	Cremation and Burial Ground/Cemetery	Zonal Plans
	96	District Office	Zonal Plans
	97	Bathing Ghat	Zonal Plans
	98	Night Shelter	AMRUT
Recreational	99	Regional Park	Zonal Plans
	100	City Park/Multipurpose Ground	Zonal Plans
	101	District Park & Play Ground/Master Plan Green	Zonal Plans
	102	Community Park/Multipurpose Park	Zonal Plans
	103	Neighbourhood Park/Children Park	Zonal Plans
	104	Amusement Park	Zonal Plans
Public Utilities	105	Water Treatment Plant	Zonal Plans
	106	Boosting Pumping Station	Zonal Plans
	107	Sewerage Treatment Plant	Zonal Plans
	108	Sewerage Pumping Station	Zonal Plans
	109	Common Effluent Treatment Plant	Zonal Plans
	110	Command Tank	Zonal Plans
	111	Electric Power Plant	AMRUT

	112	Electric Sub Station 440/220/66kv/Electricity (Power houses, substations)	Zonal Plans
	113	Transmission Tower	AMRUT
	114	HT Line	Zonal Plans
	115	Solid Waste (Sanitary Land fill etc.)	Zonal Plans
	116	Slaughter house	AMRUT
	117	Natural Gas - City Gate Metering Station	AMRUT
Government	118	President Estate and Parliament House	MPD
	119	Government Land (use undetermined)	Zonal Plans
	120	State Assembly	Zonal Plans
	121	Government Office/Courts	Zonal Plans
	122	District Court	Zonal Plans
	123	Municipal Office	Zonal Plans
Religious	124	Religious Centres and area	Recommended
Railway	125	Railway property	AMRUT
Heritage	126	Historical Monument/Conservation area	Recommended to be shifted from Recreational as per ZDPs to the separate Class "Heritage"
Transportation	127	ISBT/Bus stand/Terminus/Depot	Zonal Plans
	128	Rail Terminal/ Yard/ Passenger Terminal	Zonal Plans
	129	Railway circulation/ Railway Line	Zonal Plans
	130	Metro Depot/yard	Zonal Plans
	131	Airport/Airstrip	Zonal Plans
	132	Helipad	Zonal Plans
	133	Truck Terminus/IFC/Freight Terminal	Zonal Plans
	134	Bus Stop (point)	AMRUT
	135	Transport Nagar	AMRUT
	136	Parking/MLCP	Zonal Plans
Vacant Land	137	Private Vacant	AMRUT
	138	Municipal Asset	AMRUT
	139	Government Asset	AMRUT
Green Areas	140	Reserved Forest	AMRUT
	141	Protected Forest/Notified Area	AMRUT
Agricultural	142	Plant Nursery	AMRUT
	143	Green Belt	Recommended
Eco-sensitive areas	144	Bird Sanctuary/Wild life Sanctuary	AMRUT/Zonal Plans
	145	Bio-diversity Park	AMRUT
	146	Botanical Garden	AMRUT
	147	Zoo	AMRUT
	148	Paleo Channels	AMRUT

Part 3: Hypsography

Class	Layer No	Sub-Class	Source/remark
	149	Digital Terrain Model (DTM 0.5 m)	AMRUT
	150	Contour (1 m interval)	AMRUT
	151	Ground Control Point	AMRUT

Part 4: Boundaries

Class	Layer No	Sub-Class	Source/remark
Planning Boundary	152	Zonal Boundary	Zonal Plans
	153	TOD Influence Zone	Recommended
	154	Land Pooling Zone	Recommended
	155	Special Areas	Zonal Plan
Administrative Boundary	156	State Boundary	AMRUT
	157	District Boundary	AMRUT
	158	Ward Boundary	Recommended
	159	Municipal Boundary	Recommended
	160	Village Boundary	AMRUT