

State Environmental Atlas

(Scale: 1:1 million, 1:5 lakh, 1:250,000 or as appropriate as per size of the State)

S. No.	Name of the Map	Features to be included
Part I: General		
1.	Administrative Divisions (Base map)	District boundary, Taluka/Block boundaries, major rivers/water bodies, major settlements/towns, National Highway/State Highway, other major district roads
2.	Settlement map	- Classification of towns – metro & mega cities, Class I and Class II towns - Population density
3.	Transportation network	Road network, rail, water ways, air port, harbours
4.	Climate	Temperature – max. & min, rainfall - annual average, mean monthly & no. of rainy days, relative humidity, wind – direction & velocity
5.	Natural Hazards	Earthquake, cyclone, flood, drought, hot desert, cold desert
Part II: Physical Characteristics		
6.	Land use map (Real land use based on remote sensing data)	<p>Forest: Evergreen/semi-evergreen forest, deciduous forest, forest plantation, degraded forest/scrubs, forest blank, Mangrove</p> <p>Agriculture: Kharif, Rabi, Double crop land (Kharif+ Rabi), plantation, fallow land, shifting cultivation</p> <p>Wastelands</p> <p>Water bodies Rivers, streams (perennial/seasonal), lakes, reservoirs and other water bodies</p> <p>Roads National Highway, State Highway, Major District Roads</p> <p>Railways</p> <p>Settlements/built-up land, built-up land with plantation</p>
7.	Physiography map	- contours - elevation ranges
8.	Wastelands map	- gullied and/or ravenous land - upland with or without scrub - water logged and marshy land/salt pan - land affected by salinity/alkalinity-coastal/inland - shifting cultivation area - under utilized/degraded notified forest land - degraded pastures/grazing land - degraded land under plantation crops

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		<ul style="list-style-type: none"> - sands-desertic/coastal - mining/industrial wasteland - barren rocky/stony waste/sheet rock area - steep sloping area - snow covered and/or glacial area
9.	Soil Types	Different types of soils
10.	Land capability map	Land Capability classes
Part III: Surface/Ground Water Features		
11.	Drainage map	Rivers/streams (perennial/seasonal), lakes and other water bodies and watershed/rive basin boundaries, order of river (3 rd order and onwards)
12.	Irrigation map	Major rivers, canal system, barrages/submerged areas, catchment areas, command areas-for present and proposed projects, irrigation projects, dams & reservoirs
13.	Ground water table map	<ul style="list-style-type: none"> - Contours of different depths - pre-monsoon - Contours of different depths - post-monsoon
14.	Hydrogeomorp hology Map	<ul style="list-style-type: none"> - Geomorphic features - Ground water potential
15.	Surface water use map	<ul style="list-style-type: none"> - Use classification (depict best use) <ul style="list-style-type: none"> ➤ Public drinking water supply or industrial water supply areas from rivers/surface water bodies with or without conventional treatment ➤ areas known to be entirely dependence on surface water for drinking ➤ Coastal water used for salt pans, shell fishing, marine culture, aquaculture, shrimp farming, bathing, contact water sports, and commercial fishing or having other ecological sensitivity ➤ River stretches or water bodies used for propagation of wild life and fisheries - Location of major towns - Public water supply abstraction points - Discharge points, disposal points - Major industrial use - Pilgrim centers, organized bathing - Hydel power projects, irrigation projects, dams & barrages
16.	Surface water flow map	<ul style="list-style-type: none"> - Perennial, non-perennial - Maximum and minimum discharge - No. of days of flow per annum
17.	Ground water use map	<ul style="list-style-type: none"> - Ground water recharge zone - Public supply abstraction points for piped supply - Dependency on ground water for irrigation purpose
Part IV: Environmentally Sensitive Zones		

S. No.	Name of the Map	Features to be included
18.	Biological Diversity	<ol style="list-style-type: none"> 1. National parks 2. Wild life sanctuaries 3. Game reserve 4. Tiger reserve/elephant reserve/turtle nesting ground, breeding grounds 5. Core zone of biosphere reserve 6. Habitat for migratory birds 7. Mangrove area 8. Areas with threatened (rare, vulnerable, endangered) flora/fauna , protected corals 9. Wetlands 10. Botanical gardens, Zoological gardens, Gene Banks 11. Reserved forests, Protected forests 12. Any other closed/protected area under the Wild Life (Protection) Act, 1972 13. Any other area as locally applicable
14.	Incompatible land use areas	<ol style="list-style-type: none"> 1. Public water supply areas from rivers/surface water bodies 2. Public water supply areas from ground water 3. Ground water recharge areas 4. Scenic areas/tourism areas/hill resorts 5. Religious places, pilgrim centers that attract over 10 lakhs pilgrims a year 6. Protected tribal settlements (notified tribal areas where industrial activity is not permitted) 7. Coastal Regulatory Zone (CRZ) 8. Monuments of national significance 9. World Heritage Sites 10. Flood prone areas (based on flood in 1 in 25 years) 11. Agricultural research stations 12. Air port areas 13. Any other feature as specified by the State or local government and other features as locally applicable (including prime agricultural lands, pastures, migratory corridors etc.)

Part V: Major Sources of Pollution

14.	Location of existing industries/industrial estates	<ul style="list-style-type: none"> - Industrial estates, growth centers, industrial clusters, Special Economic Zone, industrial complexes, etc., isolated Industries – large and medium scale - Pollution load (District wise by using load factors)
15.	Location of mines	<ul style="list-style-type: none"> - Active and proposed mines, under ground/open cast mines, abandoned mines
16.	Solid/hazardous waste generation	<ul style="list-style-type: none"> - MSW, bio-medical, hazardous wastes generated, plastic wastes - Location of disposal sites
17.	Vehicular pollution	<ul style="list-style-type: none"> - Number and type of vehicles and distribution, vehicular pollution (parameter-wise graph) - Fuel consumption (district-wise)

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		- Type of fuel used – vehicular, industrial, agricultural
18.	Domestic Sewage Load	- Waste water generated, treatment status, disposal – class I and Class II cities - Organic load – urban & rural
19.	Consumption of fertilizer & pesticide map	- Fertilizer/pesticide consumption
Part VI: Environmental Quality		
20.	Air quality map	- location of monitoring stations - Air quality (low, medium, high, critical zones)
21.	Surface water quality map	- location of monitoring stations - surface water quality
22.	Ground water quality map	- location of monitoring stations - ground water quality (contours of chloride, conductivity, pollutants etc.)
23.	Contaminated sites	- Polluted/contaminated areas
24.	Ground water quality map	- location of monitoring stations - ground water quality