District Environment Plan



Prepared By



Environment Department, Government of Maharashtra



Maharashtra Pollution Control Board

Ahmednagar

1.0 Preamble

Hon'ble National Green Tribunal vide order dated 26/09/2019 in O.A. No. 360 of 2018 filed by Shree Nath Sharma Vs Union of India and Others directed that CPCB shall facilitate the District Magistrates in preparation of District Environmental Plan by placing Model plan on its website. This model plan may be adopted as per local requirements by all Districts under supervision of District Magistrate.

The said Order also directs that Department of Environment in respective States / UTs should collect district plans to prepare State Environment Plan, which shall be monitored by respective Chief Secretaries of State/UT by 15/12/2019.

Based on State Environmental plans, CPCB and Ministry of Environment, Forest & Climate Change shall prepare National Environmental Plan, under the supervision of Secretary, MoEF&CC and Chairman, CPCB by 31/01/2020. The National Action Plan needs to be submitted before Hon'ble NGT 15/02/2020.

In compliance to above directions and as per the model DEP prepared by CPCB, Environment Action plan for the district is prepared.

2.0 Introduction

Ahmednagar district, which is known as 'Rural Development in Co-operation' and 'Land of saints', is situated in the middle of western Maharashtra. District has the distinction of being the first in Maharashtra in terms of geographical area. It is 5.6 percent of the total area of the state. Ahmednagar takes its name from Ahmad Nizam Shah I, who founded the town in 1494 on the site of a battlefield where he won a battle against superior Bahamani forces. It was close to the site of the village of bhingar.

General Ahmednagar district profile is presented in the **Table 1** and location is shown in **Figure 1**.

Description	Details		
Average Climate	24°C. Rainfall: 382mm.		
Geographical	It lies between 18.2 to 19.9 North Latitude and 73.9to 75.5 East		
Location	Longitude.		
Area	17048 Sq. km.		

Table 1 Ahmednagar District Profile

Description	Details		
Boundaries	To the north of the Ahmednagar district lie the districts Nashik and		
	Aurangabad		
	To the east are districts of Beed and Osmanabad.		
	To the south lie Solapur and Pune.		
	To the west lie the districts of Thane and Pune		
Languages	Marathi, Hindi, English are major languages but all Indian languages are		
Spoken	spoken		
Population	Total: 9,41,327		
	[According to 2011 Census Report]		
Population	266 Per Sq. km.		
Density			
Literacy Rate	79.05		
Rivers	Godavari, Bhim		
ULBs	15 Numbers		
Municipal	1 Numbers		
Corporations			
Cantonment	1Number		
Boards			
Sub districts			
Villages	1584 Numbers		
Statutory Towns	11 Numbers		
Tahsils	14 Numbers		
	Ahmednagar, Akole, Jamkhed, Karjat, Kopergaon, Newasa, Parner,		
	Pathardi, Rahuri, Sangmner, Shevgaon, Shrirampur, Shrigonda and		
	Rahata.		
Pin code	414001		

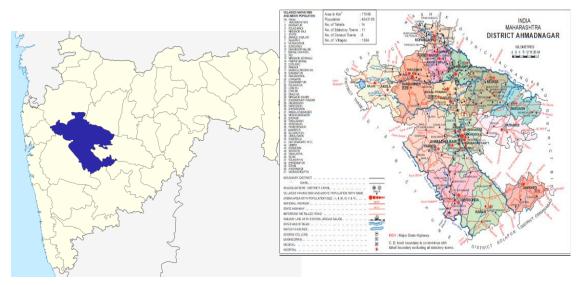


Figure 1 Location of Ahmednagar District

3.0 Waste Management Plan

Urban India is facing an ever increasing challenge of providing for the incremental infrastructural needs of a growing urban population. According to the 2011 census, the population of India was 1.21 billion; of this 31% live in cities. It is further projected that by 2050 half of India's population will live in cities. With this increasing population, management of Municipal Solid Waste (MSW) in the country has emerged as a severe problem not only because of the environmental and aesthetic concerns but also because of the sheer quantities generated every day.

Solid waste management is among the basic essential services provided by municipal authorities in the country to keep cities clean. Primary sources of solid waste are local households, commercial establishments, hospitals, hotels, restaurants, and markets. Local Bodies are responsible for collection, storage, segregation, transportation and disposal of all solid waste generated in the city. There are 15 Urban Local Bodies [ULBs] in the district.

3.1 Domestic Solid Waste Management Plan

There are 15 ULBs with 305 Wards. Municipal Solid Waste [Dry & Wet] generated from the district is 315.53MTD wherein, Dry Waste is 141.75MTD and Wet waste is 173.78MTD. Quantity of treated solid waste is 225.4MTD and 90.13MTD is directly dumped. Wet waste is being treated though Composting & Bio-Methanation.

Almost 90% of generated waste is being transported but segregation is only 75.5% across the district.

3.1.2 Adequacy of Infrastructure

51 numbers of waste Transfer points for all types of waste collection & transportation and 6 waste deposition centres for DHW is provided across the entire district. District is equipped with 107 Waste collection Trolleys and 36 Mini collection Trucks. 9 Sanitary Landfill sites are present in the district. Maximum wet waste is treated in the available 120 Centralised and 10 decentralised composting units. There are 2 Bio-Methanation units are installed. District authorities have implemented Solid Waste Management Rules in all the ULBs.

3.2 C&D Waste Management Plan

The Construction and Demolition Waste [C&D Waste] generated in the district is about 847.5MTD. Out of which only 2.21MTD waste is processed / recycled and 774.5MTD of C&D

waste is being disposed of by land filling without process and 70.78MTD is dumped illegally. There are 7 facilities for storage of C&D waste.

3.3 Plastic Waste Management

Total Plastic waste generated by Aurangabad district is 16.1MTD. Overall door to door collection and segregation system is implemented by 93% and approximately 95% respectively. District authority has established 2 Collection Centre across the district. There are 131 Plastic Waste Pickers and 5 numbers of Plastic Waste Recycler but there is no plastic manufacture unit in the district. PW Management Rules, 2016 is implemented in all the ULBs.

3.4 Biomedical Waste Management

District has 1984 HCFs and out of which only 1570 HCFs have taken authorization. Total BMW generation from all above mentioned sources are to the tune of 1800kg/day and all generated waste is being treated.

3.5 Hazardous Waste Management

There are 544 industries and generating Hazardous Waste to the tune of 1250MT/Annually. Out of which 800MT is sent for incineration and 450MT is sent for Land filling. There is no Hazardous waste dump site in the district. All HW generating units have taken authorization and but only 134 units have displayed Board of HW Generation in front of Gate.

3.6 E - Waste Management

There are 2 Authorized E waste recycler and 2 authorized E Waste Collector in the district. 11 Collection Centres are established by ULBs. and 9 are established by Producer under EPR scheme. There are 7 numbers of authorized E-Waste recyclers / Dismantler.

3.7 Action Plan

As per the above mentioned observation, it seems that almost all ULBs are handling solid waste generated as per the Solid Waste Management Rules, however there are certain issues that needs to be addressed for 100% implementation of the rules as mentioned in **Table 2**.

Sectors	Gaps	Action Points	Priority
Domestic Solid Waste			
Quantification	 Methodology for solid waste quantification should be ascertained 	 Mechanism for graded weighing system either through intermediate transfer station or at 	Immediate
	 Quantification based on Income group, culture affluence and technology to be considered 	 the common receiving station to be created. Usually one weigh bridge at any treatment / disposal location required Quadrate sampling methodology to be adopted in order to reduce quantity as well as quality 	
Collection	• Some of the places,	Ideally most proven method of	Short to
System & Transport	efficiency of the collection system is	SWM is 3 Tier System with door to door, community and transfer	Mid Term
System	not up to the mark	station approach	
		 Need to create infrastructure for additional 25% waste segregation 	
Infrastructure	 Mostly composting is the main treatment methodology with about 80% coverage Sanitary landfill is limited to few ULBs RDF Facility is limited to only with few ULBs 	 Need to install Sanitary landfill Need to explore and practised RDF facility in almost all ULBs Need to create facility of Bio- composting for additionally about 100 MTD of solid waste 	High & Immediate
Plastic Waste	 Lack of SOP for not only quantification but also life cycle analysis [LCA] Limited understanding / interpretation of EPR / PRO Only two ULBs lacking 	 Strengthening surveillance of life cycle assessment for type and quantity of Plastic Waste Effective EPR Policy Initiation of 100% compliance to PW Rules at the earliest 	High & Immediate

 Table 2
 Action Plan for Solid Waste Management

Sectors	Gaps	Action Points	Priority
	implementation of PW notification		
C&D Waste	 No facility for C&D Waste Recycling Plant 	 Minimum 1 such facility at each of the ULB to be established 	High
		 System for utilization of recovered material and processed C&D waste to be effectively 	
		implemented and monitored	
Biomedical	Rooting and effective	 Regular Inventorization through 	Very High
Waste	collection within 48hrs	automatic / digital platform to be	&
	from the time of	developed	Immediate
	generation to be	 Up-gradation of existing facility to 	
	effectively handled	meet 2016 CPCB norms	
	Treatment facility	 Additional at least 1 facility to 	
	lacks implementation	cover the of umbrella zone along	
	of 2016 Notification in	with increasing burden on the	
	line with CPCB	existing coverage area to be	
	audited report	planned	
	 Limited Inventorization 	Collection mechanism to be	
		strengthen with additional vehicles	
		to cover vast area and scattered	
		HCF [miniscule quantity]	
Hazardous	Domestic HW being	• Either decentralized 4 - 5 step	Very High
Waste	mixed with solid waste	segregation practices to be	&
	posing threat	initiated or at least advisory for	Immediate
	• No separate handling	intermittent storage and collection	
	of domestic HW	of domestic HW to be initiated	
	Not effective	 Inventory to be initiated and 	
	segregation of DHW	maintained	
	at source		

Sectors	Gaps	Action Points	Priority
E Waste	Lack of inventory	 Detailed inventory for domestic e 	Very High
	 Limited understanding 	waste under 26 different	&
	of E waste rule and	categories	Immediate
	management	 Mass awareness campaign 	
	Neither segregation	 Every ULB to have at least one E 	
	nor separate transfer /	waste management centre and	
	handling facility	minimum one collection / drop	
	No Awareness	centre in a radius of 25-30km	
	programme conducted	 At least one e waste processing 	
	by ULBs & PROs	unit in a district	
	•	•	

4.0 Water Quality Management Plan

There are 5 major Rivers in flowing in the district with 56km in length and 4 drains / nallas are identified meeting in to the river. There are 3 ground water polluted stretch are identified and availability of ground water quantity is adequate the district. Water quality of the region is monitored through water sampling and analysis for multiple parameters throughout the years and also represented digitally in form of WQI on various platform.

All ULBs generates about 94.7MLD of sewage with an existing capacity of 2.8MLD of STP with Sewerage Network System Length of 88km. However only 3% of generated sewage is being treated in the STP and about 91.9MLD sewage is left untreated. Only one ULB has installed STP. It is observed that only 15% of population is covered under sewage network.

Industrial effluent generation is to the tune of 27.5MLD from 564 numbers of industries of prominently of "Agro Based / Pharma / Sugar Distillery". Industries are treating their entire effluent to the best possible norms as stipulated by their permits and same is monitored effectively and regularly through the MPCB. 20 numbers of industries are meeting discharge limits of water standards and 20 No of complaints received or number of recurring complaints against industrial pollution in last 3 months. Based on the complaint received, MPCB has closed 2 industries for exceeding the discharge standards and on 1 industry Environmental Compensation was imposed during last 3 months.

All the above needs to be combined with the effort of sensitization and awareness at all level in order to formulate and implement successful water quality management strategy. Detailed Issue based management action plan is provided in **Table 3**.

Sector	Gaps	Action Plan	Priority
Water	 Limited information available 	Thorough Mapping of	High
Resources	on mapping of surface water	resources to be taken up	
	resources in terms of	 Extensive assessment of 	
	quantity	quality to be done	
	 Limited Inventorization of 	 Criticality indicators to be 	
	quantity, usage, availability	established for each water	
	exploitation etc.	body/resource	
	Limited Rejuvenation /	 Extend water quality 	
	remediation of water bodies	monitoring network to	
	 Solid waste dumping in the 	include representativeness	
	river bodies	 Based on the criticality 	
	 identification of ground water 	initiate Rejuvenation /	
	resource [Bore-well] is not	remediation	
	mentioned	 Online Monitoring system 	
	•	for surface water bodies to	
		be established	
		 Protection methods to be 	
		developed for creative	
		stoppage of dumping of	
		solid waste in the surface	
		water bodies	
		Need to identify bore-well	
		present in the area	
		•	
Domestic	Correlation between	 Digital Platform to 	Very high
	generation and treatment	accommodate water	&
	often misleading	budgeting / reuse potential	Immediate
	 Water budgeting exercise 	Need to install additional	
	often missing	sewage network to cover	
	 Computation of water 	balanced 85% of population	
	footprint missing	Need to install STP of	
	 Surveillance /Inventorization 	almost 100MLD	
	in cradle to grave approach	In situ treatment for 56 River	
	absolutely never applied	stretches to be developed	

 Table 3
 Action Plan for Water Quality Management

	 Limited collection system and 	 Policy for reuse / recycle of 	
	treatment facility especially in	treated wastewater	
	remote area		
	 Often polluting water 		
	resources		
	No established reuse options		
	/ reuse network		
	 Only 2.8MLD Sewage is 		
	being treated leaving almost		
	100MLD untreated		
	Sewage Network installed		
	covers only 15% of		
	population		
Industrial	Performance of CETP is	 CETP performance to be 	High
	questionable	more effective in line with	
		various orders of regulatory	
		bodies / courts	
		 Digital compliance 	
		methodology to be	
		developed	
		 Disposal system to be under 	
		constant surveillance	

5.0 Air Quality Management

Air quality assessment and sectoral management needs are ought to be essentially planned and executed. As of now no monitoring station has setup in the district however, 3 Manual and 1 Continuous Air Quality Monitoring stations are proposed by SPCBs /CPCB.

Gap identified and action plan to be adopted with its priority for air quality of Aurangabad region is presented in **Table 4**.

Sectors	Gaps	Action Points	Priority
Air	Till date no Air Quality	 Emission inventory and source 	High
	Monitoring Stations	apportionment supported with	
	are installed	dispersion and health based	
	 Sectoral action plans 	iterative process for science based	
	not effectively	AQM strategy to be established	
	established	 Each ULB to have atleast one 	
		urban and one rural CAAQMS or	
		three manual stations at least to	
		include criteria pollutants with	
		minimum one location to include	
		parameters of 2009 CPCB	
		notification and meteorological	
		data including cloud cover	
		 Fugitive emission control system 	
		for hot spot emission control to be	
		installed	
		 Green barriers / Photo catalyst 	
		options to be evaluated	
		 Capacity building to be enhanced 	

Table 4 Action Plan for Air Quality Management

6.0 Mining Activity Management plan

There Basalt Stone Crusher Ordinary Sand Mining types mining activity is being done in the distric. Number of Basalt Stone Mining is 109. Area covered under mining is 17114 sq.km. and area covered under sand mining is 1576700 sq.m. There are 109 numbers of Mining areas meeting Environmental Clearance and consent Conditions.

7.0 Noise Action Plan

Other than event base monitoring and special projects related / orders monitoring, MPCB carries out annual noise monitoring. No details regarding availability of noise measuring devices with district administration. District has received 1 complaint on noise pollution in last 1 year, however details of action taken is not shared. **Table 5** spells potential management plan that could be taken up on priority by each of the ULBs. There is no complaint received in lat one year related to the noise pollution.

		NOISE ACTION I I dil	
Sectors	Gaps	Action Points	Priority
Noise	 Most of the source 	 Noise mapping to be carried out 	High
	related noise areas	for zonation purposes	
	show exposure	 At source control using 	
	beyond compliance	 physical or natural attenuation 	
	Excessive exposure	methods to be adopted	
	during noise	In the path noise control	
	generating potential	methodologies using noise	
	events/ festivals	absorbers creating zone of	
	•	inhibition / silence zone to be done	
		End of the pipe measures such as	
		PEs acoustic enclosures etc. to be	
		adopted	
		 Event based noise control policy to 	
		be effectively implemented	

Table 5Noise Action Plan