

District Environment Plan (Data Templates for DEP)

Introduction

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.

The model District Environment Plan (DEP) is envisaged to bring the scope of environmental management to local governments and administration, so as to set their own goals and targets to achieve desired environmental quality. The DEP is intended as a quick reference to the personnel of District Administration to (i) identify key environmental issues within the district boundary, (ii) prioritize the required projects, (iii) strategize and plan for implementation and (iv) Outline tentative timelines for completion of projects. This report will also help regulators to monitor compliance and is structured to allow updates and monitoring at State level.

CPCB has prepared Data templates for preparation of DEPs. Data templates have been circulated to all Districts to capture information related to key parameters essential for preparing environment management plan.

As identified by Hon'ble National Green Tribunal in Original Application No. 360 of 2018, the scope of DEP will be based on 7 thematic areas unless there is any other specific environmental factor in the district that needs to be covered as part of DEP. The scope of work is outlined in following areas:

1. Waste Management Plan
 - i. Solid Waste Management Plan
 - ii. Plastic Waste Management
 - iii. C&D Waste Management
 - iv. Biomedical Waste Management
 - v. Hazardous Waste Management
 - vi. E-Waste Waste Management
2. Water Quality Management Plan
3. Domestic Sewage Management Plan
4. Industrial Wastewater Management Plan
5. Air Quality Management Plan
6. Mining Activity Management plan
7. Noise Pollution Management Plan

Data templates covers 7 thematic areas by capturing basic information on 64 action areas with 220 data points, which covers essential information required for preparing District Environment Management Plan.

District Magistrates in association with State Environment Departments may initiate data acquisition from concerned local agencies by sharing excel file 'OA 360 NGT District Environment Plan.xlsx' given at <https://cpcb.nic.in/NGT/OA-360-NGT-District-Environment-Plan.xlsx> link in CPCB website, additional entries may be made in excel sheet as per local requirement.

Data Template for District Environmental Management Plan for 7 thematic areas

1.0 Waste Management Plan

(i) Solid Waste Management Plan (for each ULB)

No.	Action Areas	Details of Data Requirement	Measurable Outcome
	Name of ULB		[name of ULB]
	No of ULBs in the District		[Nos]
	Population		[Nos as per 2011 census]
SW1	Report on inventory of total solid waste Generation		
SW1a		Total solid waste Generation	[in MT/Day] or [Not estimated]
SW1b		Qty. of Dry Waste segregated	[in MT/Day] or [Collection Not initiated]
SW1c		Qty. of Wet Waste segregated	[in MT/Day] or [Collection Not initiated]
SW1d		Qty. of C&D Waste segregated	[in MT/Day] or [Collection Not initiated]
SW1e		Qty. of Street Sweeping	[in MT/Day] or [Not estimated]
SW1f		Qty. of Drain Silt	[in MT/Day] or [Not estimated]
SW1g		Qty. of Domestic Hazardous Waste(DHW) collected	[in MT/Day] or [No Facility]
SW1h		Qty. of Other Waste (Horticulture, sanitary waste, etc.)	[in MT/Day] or [Qty not estimated]
SW1i		No of Old dump sites	[Nos] or [None]
SW1j		Qty stored in dumpsites	[MT] or [Not estimated]
SW1k		No of Sanitary landfills	[Nos] or [None]
SW1l		No of wards	[nos]
SW2	Compliance by Bulk Waste Generators		
SW2a		No of BW Generators	[numbers] or [inventory not done]
SW2b		No of on-site facilities for Wet Waste	[numbers] or [No data]
SW3	Compliance in segregated waste Collection SW Collection (MT Per day)		
SW3a		Total generation	[Automatic] from SW1a
SW3b		Wet Waste	[in MT/Day] or [Collection Not initiated]
SW3c		Dry Waste	[in MT/Day] or [Collection Not initiated]
SW3d		C&D Waste	[in MT/Day] or [Collection Not initiated]

No.	Action Areas	Details of Data Requirement	Measurable Outcome
SW4	Waste Management Operations		
SW4a		Door to Door Collection	[100%] / [partial %] / [not initiated]
SW4b		Mechanical Road Sweeping	[100%] / [partial%] / [not initiated]
SW4c		Manual Sweeping	[100%] / [partial%]
SW4d		Segregated Waste Transport	[100%] / [partial %] / [not initiated]
SW4e		Digesters (Bio-methanation)	[% of WW] / [not initiated]
SW4f		Composting operation	[% of WW] / [not initiated]
SW4g		MRF Operation	[MRF used] / [not installed]
SW4h		Use of Sanitary Landfill	[% of SW collected] / [no SLF]
SW4i		Reclamation of old dumpsites	[initiated] / [not initiated]
SW4j		Linkage with Waste to Energy Boilers / Cement Plants	[initiated] / [not initiated]
SW4k		Linkage with Recyclers	[initiated] / [not initiated]
SW4l		Authorization of waste pickers	[initiated] / [not initiated]
SW4m		Linkage with TSDF / CBMWTF	[initiated] / [not initiated]
SW4n		Involvement of NGOs	[initiated] / [not initiated]
SW4o		Linkage with Producers / Brand Owners	[initiated] / [not initiated]
SW4p		Authorisation of Waste Pickers	
SW4q		Issuance of ID Cards	[initiated] / [not initiated]
SW5	Adequacy of of Infrastructure		
SW5a		Waste Collection Trolleys	[Nos. Required] / [Nos. Available]
SW5b		Mini Collection Trucks	[Nos. Required] / [Nos. Available]
SW5c		Segregated Transport	[yes] / [no] / [% area covered]
SW5d		Bulk Waste Trucks	[Nos. Required] / [Nos. Available]
SW5e		Waste Transfer points	[Nos. Required] / [Nos. Available] / [Not available]
SW5f		Bio-methanation units	[Nos. Required] / [Nos. Available]
SW5h		Composting units	[Nos. Required] / [Nos. Available]
SW5i		Material Recovery Facilities	[used or installed] / [not available]
SW5k		Waste to Energy (if applicable)	[Required] / [Nos. Available]
SW5l		Waste to RDF	[Required] / [Nos. Available]
SW5m		Sanitary Land fills	[Nos] / [Nos. Available]
SW5n		Capacity of sanitary landfills	[MT] / / [Nos. Available]

No.	Action Areas	Details of Data Requirement	Measurable Outcome
SW5o		Waste Deposit Centers (DHW)	[Nos] / [Nos. Available]
SW5p		Other facilities	[give or select from list]
SW6	Notification and Implementation of By-Laws		
SW6a		Notification of By-laws	[done] / [in progress] / [not initiated]
SW6b		Implementation of by-laws	[done] / [in progress] / [not initiated]
SW7	Adequacy of Financial Status of ULB		
SW7a		CAPEX Required	[INR] / [Not required]
SW7b		OPEX	[INR per Year] / [% of requirement]
SW7c		Adequacy of OPEX	[Yes] / [No]

(ii) Plastic Waste Management (for each ULB)

No.	Action Areas	Details of Data Requirement	Measurable Outcome
	Name of ULB		[name of ULB]
	Population		[Nos as per 2011 census]
PW1	Inventory of plastic waste generation		
PW1a		Estimated Quantity of plastic waste generated in District	[MT/day] / [Not Estimated]
PW2	Implementation of Collection		
PW2a		Door to Door collection	[100%] / [partial %] / [not initiated]
PW2b		Segregated Waste collection	[100%] / [partial %]
PW2c		Plastic waste collection at Material Recovery Facility	[MRF used] / [not installed]
PW2d		Authorization of PW pickers	[Nos] / [not initiated]
PW2e		PW collection Centers	[Nos] / [not established]
PW3	Establishment of linkage with Stakeholders		
PW3a		Established linkage with PROs of Producers	[Nos] / [not established]
PW3b		Established linkage with NGOs	[Nos] / [not established]
PW4	Availability of facilities for Recycling or utilization of PW		
PW4a		No. of PW recyclers	[Nos]
PW4b		No Manufacturers	[Nos]
PW4c		No of pyrolysis oil plants	[Nos]

No.	Action Areas	Details of Data Requirement	Measurable Outcome
PW4d		Plastic pyrolysis	[Quantity in MT sent per Month]
PW4e		Use in road making	[Quantity MT used per Month]
PW4f		Co-processing in Cement Kiln	[Quantity in MT sent per Month]
W5	Implementation of PW Management Rules, 2016		
W5a		Sealing of units producing < 50-micron plastic	[All sealed] / [Partial] / [no action]
PW5b		Prohibiting sale of carry bags < 50 micron	[Prohibited] / [Partial] / [no action]
PW5c		Ban on Carry bags and other single use plastics as notified by State Government	[Implemented] / [Partial] / [no action] / [No Ban]
PW6	Implementation of Extended Producers Responsibility (EPR) through Producers/Brand-owners		
PW6a		No of Producers associated with ULBs	[Nos] / [None]
PW6b		Financial support by Producers / Brand owners to ULBs	[Nos] / [None]
PW6c		Amount of PRO Support	[Rs...]
PW6d		Infrastructure support by Producers / Brand owners to ULBs	[Nos of Producers] / [None]
PW6e		No of collection centers established by Producers / Brand owners to ULBs	[Nos] / [None]

(iii) C&D Waste Management

No.	Action Areas	Details of Data Requirement	Measurable Outcome
	Name of ULB		[name of ULB]
	Population		[Nos as per 2011 census]
CD1	Inventory of C&D waste generation		
CD1a		Estimated Quantity	[Kg/Day] / [Not estimated]
CD2	Implement scheme for permitting bulk waste generators		

No.	Action Areas	Details of Data Requirement	Measurable Outcome
CD2a		Issuance of Permissions by ULBs	[Initiated] / [Not initiated]
CD3	Establishment of C&D Waste Deposition centers		
CD3a		Establishment of Deposition Points	[Yes] / [No]
CD3b		C&D Deposition point identified	[Yes] / [No]
CD4	Implementation of By-Laws for CD Waste Management		
CD4a		Implementation of By-laws	[notified] / [not notified]
CD4b		Collection of Deposition / disposal Charges	[Initiated] / [Not initiated]
CD5	Establishment of C&D Waste recycling plant or linkage with such facility		
CD5a		Establishment CD Waste Recycling Plant	[Established] / [Sent to shared Facility] / [No facility exists]
CD5b		Capacity of CD Waste Recycling Plant	[MT/Day] / [Not available]

(iv) Biomedical Waste Management (for each ULB)

No.	Action Areas	Details of Data Requirement	Measurable Outcome
	Name of ULB		[name of ULB]
	Population		[Nos as per 2011 census]
BMW1	Inventory of Biomedical Waste Generation		
BMW1a		Total no. of Bedded Hospitals	[Nos] / [No inventory]
BMW1b		Total no. of non-bedded HCF	[Nos] / [No inventory]
BMW1c		Total no. Clinics	[Nos] / [No inventory]
BMW1d		No of Veterinary Hospitals	[Nos] / [No inventory]
BMW1e		Pathlabs	[Nos] / [No inventory]
BMW1f		Dental Clinics	[Nos] / [No inventory]
BMW1g		Blood Banks	[Nos] / [No inventory]

BMW1h		Animal Houses	[Nos] / [No inventory]
BMW1i		Bio-research Labs	[Nos] / [No inventory]
BMW1j		Others	[Nos] / [No inventory]
BMW2	Authorization of HCFs by SPCBs / PCCs		
BMW2a		Bedded HCFs	[Nos Authorized]
BMW2b		Non-bedded HCFs	[Nos Authorized]
BMW3a	Biomedical Waste Treatment and Disposal Facilities (CBMWTFs)		
BMW3a		No of CBMWTFs	[Nos] / None
BMW3b		Linkage with CBMWTFs	[Yes] / [no linkage]
BMW3c		Capacity of CBMWTFs	[Adequate] / [Not adequate]
BMW3d		Requirements of CBMWTFs	[Require] / [not required]
BMW3e		Captive Disposal Facilities of HCFs	[Nos] / [None]
BMW4	Compliance by CBMWTFs		
BMW4a		Compliance to standards	[Meeting] / [Not meeting] / [NA]
BMW4b		Barcode tracking by HCFs / CBMWTFs	[100%] / [Partly %] / [None]
BMW4c		Daily BMW lifting by CBMWTFs	[Kg / day]
BMW5	Status of Compliance by Healthcare Facilities		
BMW5a		Pre-segregation	[100%] / [partly %] / [None]
BMW5b		Linkage with CBMWTFs	[100%] / [partly %] / [None]

(v) Hazardous Waste Management

No.	Action Areas	Details of Data Requirement	Measurable Outcome
HW1	Inventory of Hazardous Waste		
HW1a		No of HW Generating Industry	[Nos.]
HW1b		Quantity of HW	[MT/Annum]
HW1c		Quantity of Incinerable HW	[MT/Annum]
HW1d		Quantity of land-fillable HW	[MT/Annum]
HW1e		Quantity of Recyclable / utilizable HW	[MT/Annum]
HW2	Contaminated Sites and illegal industrial hazardous waste dumpsites		

No.	Action Areas	Details of Data Requirement	Measurable Outcome
HW2a		No of HW dumpsites	[Nos] / [None]
HW2c		Probable Contaminated Sites	[Nos] (provide list)
HW3	Authorization by SPCBs/PCCs		
HW3a		No of industries authorized	[Nos]
HW3b		Display Board of HW Generation in front of Gate	[Nos]
HW3	Availability of Common Hazardous Waste TSDF		
HW3a		Common TSDF	[Exists] / [No] / [Sent to Other District within State]
HW3b		Industries linkage with TSDF	[Nos.]
HW4	Linkage of ULBs in District with Common TSDF		
HW4a		ULBs linked to Common TSDFs for Domestic Hazardous Waste	[Yes] / [No]

(vi) E-Waste Waste Management

No.	Action Areas	Details of Data Requirement	Measurable Outcome
EW1	Status of facilitating authorized collection of E-Waste		
EW1a		Does the citizen are able to deposit or provide E-Waste through Toll-free Numbers in the District	[Yes] / [No]
EW1c		Collection centers established by ULB in District	[Nos] / [None]
EW1d		Collection centers established by Producers or their PROs in the District	[Nos] / [None]
EW1e		Does the district has linkage with authorized E-Waste recyclers / Dismantler	[Yes] / [No]
EW1f		No authorized E-Waste recyclers / Dismantler	[Nos] / [None]
EW2	Status of Collection of E-Waste		
EW2a		Authorizing E-Waste collectors	[Authorized] / [None]
EW2b		Involvement of NGOs	[Yes] / [No] / [Nos]
EW2c		Does Producers have approached NGOs/ Informal Sector for setting up Collection Centers.	[Yes] / [No] / [Nos]

No.	Action Areas	Details of Data Requirement	Measurable Outcome
EW2d		Does ULBs have linkage with authorized Recyclers / Dismantlers	[Yes] / [No]
EW4	Control E-Waste related pollution		
EW4a		Does informal trading, dismantling, and recycling of e-waste exists in District	[Yes] / [No]
EW4b		Does the administration closed illegal E-Waste recycling in the District	[Yes] / [No] / [Nos]
EW4c		No of actions taken to close illegal trading or processing of E-Waste	[Nos]
EW5	Creation of Awareness on Waste handling and dispo		
EW5a		Does PROs / Producers conducted any District level Awareness Campaigns	[Yes] / [No] / [Nos]
EW5c		Does District Administration conducted any District level Awareness Campaigns	[Yes] / [No] / [Nos]

2.0 Water Quality Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome
WQ1	Inventory of water resources in District		
WQ1a		Rivers	[Nos] and [Length in Km]
WQ1b		Length of Coastline	[in Km]
WQ1c		Nalas/Drains meeting Rivers	[Nos]
WQ1d		Lakes / Ponds	[Nos] and [Area in Hectares]
WQ1e		Total Quantity of sewage and industrial discharge in District	[Automatic] (SW1a+IW1b)
	Control of Groundwater Water Quality		
WQ2a		Estimated number of bore-wells	[Nos]
WQ2b		No of permissions given for extraction of groundwater	[Nos]
WQ2c		Number of groundwater polluted areas	[Nos]
WQ2d		Groundwater Availability	[adequate] / [not adequate]
WQ3	Availability of Water Quality Data		
WQ3a		Creation of monitoring cell	[Yes] / [No]

No.	Action Areas	Details of Data Requirement	Measurable Outcome
WQ3b		Access to Surface water and groundwater quality data at DM office	[Available] or [Not available]
WQ4	Control of River side Activities		
WQ4a	Control of River side Activities	River Side open defecation	[Fully Controlled] / [Partly controlled] / [no Measures taken]
WQ4b		Dumping of SW on river banks	[Fully Controlled] / [Partly controlled] / [no Measures taken]
WQ4c		Control measures for idol immersion	[Measures taken] / [Measures taken post immersion] / [No Measures taken]
WQ5	Control of Water Pollution in Rivers		
WQ5a		Percentage of untreated sewage	[%] (automatic SM1g/SM1a)
WQ5b		Monitoring of Action Plans for Rejuvenation of Rivers	[Monitored] / [Not monitored] [not applicable]
WQ5c		No of directions given to industries for Discharge of Untreated industrial wastewater in last 12 months	[Nos]
WQ6	Awareness Activities		
WQ6a		District level campaigns on protection of water quality	[Nos in previous year]
WQ6b	Oil Spill Disaster Contingency Plan		
WQ6a		Creation of District Oil Spill Crisis Management Group	[Created] / [Not Created]
WQ6b		Preparation District Oil Spill Disaster Contingency Plan	[Prepared] / [Not Prepared]
WQ7	Protection of Flood plains		
WQ7a		Encroachment of flood plains is regulated.	[Yes] / [No]
	Rainwater Harvesting		
WQ8a		Action plan for Rain water harvesting	[Implemented] / [Not implemented]

3.0 Domestic Sewage Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome
SM1	Inventory of Sewage Management		
SM1a		Total Quantity of Sewage generated in District from Class II cities and above	[MLD]
SM1b		No of Class-II towns and above	[Nos]
SM1c		No of Class-I towns and above	[Nos]
SM1d		No of Towns needing STPs	[Nos]
SM1e		No of Towns STPs installed	[Nos]
SM1f		Quantity of treated sewage flowing into Rivers (directly or indirectly)	[MLD]
SM1g		Quantity of untreated or partially treated sewage (directly or indirectly)	[Automatic]
SM1h		Quantity of sewage flowing into lakes	[MLD]
SM1i		No of industrial townships	[Nos]
SW2	Adequacy of Available Infrastructure for Sewage Treatment		
SM2a		% sewage treated in STPs	[Automatic]
SM2b		Total available Treatment Capacity	[MLD]
SM2c		Additional treatment capacity required	[MLD]
SM3	Adequacy of Sewerage Network		
SM3a		No of ULBs having partial underground sewerage network	[Nos]
SM3b		No of towns not having sewerage network	[Nos]
SM3c		% population covered under sewerage network	[Automatic]

4.0 Industrial Wastewater Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome
IWW1	Inventory of industrial wastewater Generation in District		
IWW1a		No of Industries discharging wastewater	[Nos]
IWW1b		Total Quantity of industrial wastewater generated	[MLD]
IWW1c		Quantity of treated IWW discharged into Nalas / Rivers	[MLD]
IWW1d		Quantity of un-treated or partially treated IWW discharged into lakes	[MLD]
IWW1e		Prominent Type of Industries	[Agro based] / [Chemical – Dye etc.] / [Metallurgical] / [Pharma] / [Pesticide] / [Power Plants] / [Mining] / [Automobile] : Multiple selection based on size of operation and number
IWW1f		Common Effluent Treatment Facilities	[Nos] / [No CETPs]
IWW2	Status of compliance by Industries in treating wastewater		
IWW2a		No of Industries meeting Standards	[Nos]
IWW2b		No of Industries not meeting discharge Standards	[Automatic]
IWW2c		No of complaints received or number of recurring complaints against industrial pollution in last 3 months	[Nos]
AWW4	Status of Action taken for not meeting discharge standards		
IWW4a		No industries closed for exceeding standards in last 3 months	[Nos]
IWW4b		No of industries where Environmental Compensation was imposed By SPCBs	[Nos]

5.0 Air Quality Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome
AQ1	Availability of Air Quality Monitoring Network in District		
AQ1a		Manual Air Quality monitoring stations of SPCBs /CPCB	[Nos] / [None]
AQ1c		Automatic monitoring stations Operated by SPCBs / CPCB	[Nos] / [None]
AQ2	Inventory of Air Pollution Sources		
AQ2a		Identification of prominent air polluting sources	[Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)
AQ2b		No of Non-Attainment Cities	[Nos] / [None]
AQ2c		Action Plans for non-attainment cities	[Prepared] / [Not yet prepared]
AQ3	Availability of Air Quality Monitoring Data at DMs Office		
AQ3a		Access to air quality data from SPCBs & CPCB through Dashboard	[Available] / [Not yet Available]
AQ4	Control of Industrial Air Pollution		
AQ4a		No of Industries meeting Standards	[Nos]
AQ4b		No of Industries not meeting discharge Standards	[Nos]
AQ5	Control of Non-industrial Air Pollution sources		
AQ5a		Control open burning of Stubble – during winter	[Nos of fire incidents]
AQ5b		Control Open burning of Waste – Nos of actions Taken	[Nos]
AQ5c		Control of forest fires	[SOP available] / [No SoP]
AQ5d		Vehicle pollution check centers	[% ULBs covered]
AQ5e		Dust Suppression Vehicles	[% ULBs covered]
AQ6	Development of Air Pollution complaint redressal system		
AQ6a		Mobile App / Online based air pollution complaint redressing system of SPCBs.	[Available] / [Not available]

6.0 Mining Activity Management plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome
MI1a	Inventory of Mining in District		
MI1a		Type of Mining Activity	[Sand Mining] / [Iron Ore] / [Bauxite] / [Coal] / Other [specify] Multiple selection in order of magnitude of operations
MI1b		No of Mining licenses given in the District	[Nos]
MI1c		Area covered under mining	[Sq Km]
MI1d		Area of District	[Sq Km]
MI1e		Sand Mining	[Yes] / [No]
MI1f		Area of sand Mining	[River bed] / [Estuary] / [Non - river deposit]
MI2	Compliance to Environmental Conditions		
MI2a		No of Mining areas meeting Environmental Clearance Conditions	[Nos]
MI2b		No of Mining areas meeting Consent Conditions of SPCBs / PCCs	[Nos]
MI3a	Mining related environmental Complaints		
MI3b		No of pollution related complaints against Mining Operations in last 1 year	[Nos]
MI4	Action against non-complying mining activity		
MI4a		No of Mining operations suspended for violations to environmental norms	[Nos]
MI4b		No od directions issued by SPCBs	[Nos]

7.0 Noise Pollution Management Plan

No.	Action Areas	Details of Data Requirement	Measurable Outcome
NP1	Availability Monitoring equipment		
NP1a		No. of noise measuring devices with district administration	[Nos] / [None]
NP1b		No. of noise measuring devices with SPCBs	[Nos] / [None]
NP2	Capability to conduct noise level monitoring by State agency / District authorities		
NP2a		capability to conduct noise level monitoring by State agency / District authorities	[Available] / [Not available]
NP2	Management of Noise related complaints		
NP2a		No of complaints received on noise pollution in last 1 year	[Nos]
NP2b		No of complaints redressed	[Nos]
NP3	Compliance to ambient noise standards		
NP3a		Implementation of Ambient noise standards in residential and silent zones	[Regular Activity] / [Occasional] / [Never]
NP3b		Noise monitoring study in district	[carried out] / [not carried out]
NP3c		Sign boards in towns and cities in silent zones	[Installed] / [Partial] / [Not Installed]
