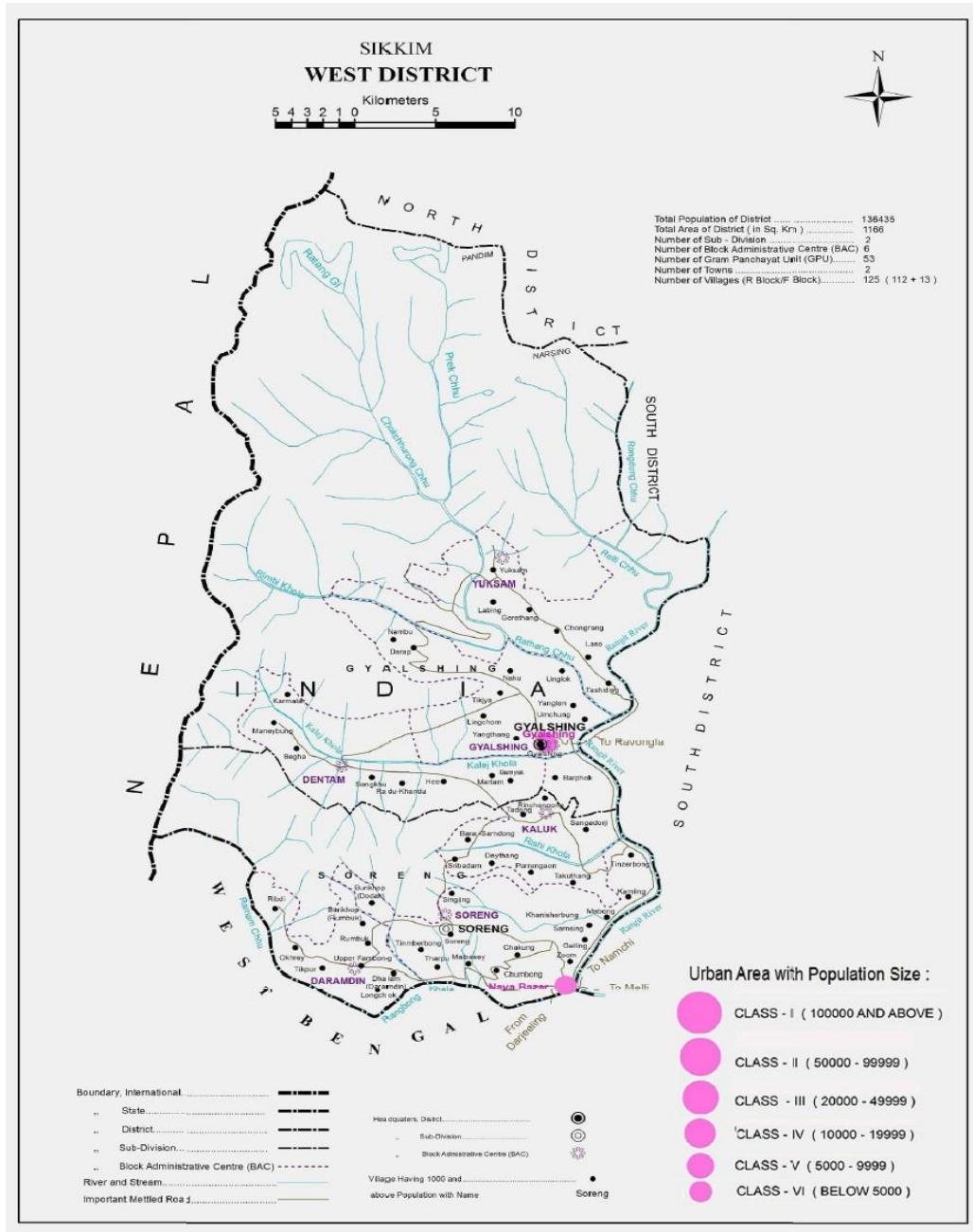


District Environment Plan for West District

State of Sikkim



Source: Census, 2011



Office of District Administration
District Collector, West District
District Administrative Centre, Rabdenste, West Sikkim
E-Mail: collectorwest@gmail.com

District Environment Plan [*West*]

District Profile.....	4
a. District Administrative Set-up	4
b. Local institutions.....	4
c. Natural Resources.....	5
▪ Water bodies	5
▪ Availability of water resources	5
▪ Forest coverage	5
d. Geography & Demography	5
e. Land-use pattern.....	6
f. Climate.....	7
2.0 Indicative Gap Analysis and Action Plans for complying with Waste Management Rules	7
(i) Solid Waste Management	7
a. Current status related to solid Waste management.....	7
b. Identification of gaps and Action plan	8-13
(ii) Plastic waste Management.....	14
(a) Current status related to Plastic waste management	14
(b) Identification of gaps and Action plan.....	14-16
(iii) C & D Waste Management	16
▪ a. Current status related to C & D Waste	16
b. Identification of gaps and Action plan	17-18
(iv) Biomedical Waste Management	18
a. Current Status related to biomedical waste	18
b. Identification of gaps and Action plan	18-20
(v) Hazardous Waste Management.....	21
a. Current Status related to Hazardous Waste Management	21
b. Identification of gaps and action plan	22-24
(vi) E-Waste Management.....	24
a. Current Status related to E-Waste Management	24
b. Identification of gaps and action plan	25-26
Air Quality Management.....	26
a. Current Status related to Air Quality Management.....	26
b. Identification of gaps and action plan	27
Water Quality Management	28
Water Quality Monitoring.....	28-30

a. Current Status related to Water Quality Management.....	28-30
b. Identification of gaps and action plan for water quality monitoring	31-32
Domestic Sewage	32
a. Identification of gaps and action plan for treatment of domestic sewage.....	32-33
b. Identification of gaps and action plan for treatment of domestic sewage	33
Industrial wastewater management	34
a. Current Status related to Industrial Wastewater Management	34
b. Identification of gaps and action plan for industrial wastewater:	34
Mining Activity Management plan	34
a. Current Status related to Mining Activity Management.....	34
b. Identification of gaps and action plan	35
Noise Pollution Management plan	36
a. Current Status related to Noise Pollution Management.....	36
b. Identification of gaps and action plan	36

District Profile

West District of Sikkim lies between 27°27'55" North latitudes and 88°88'36" East

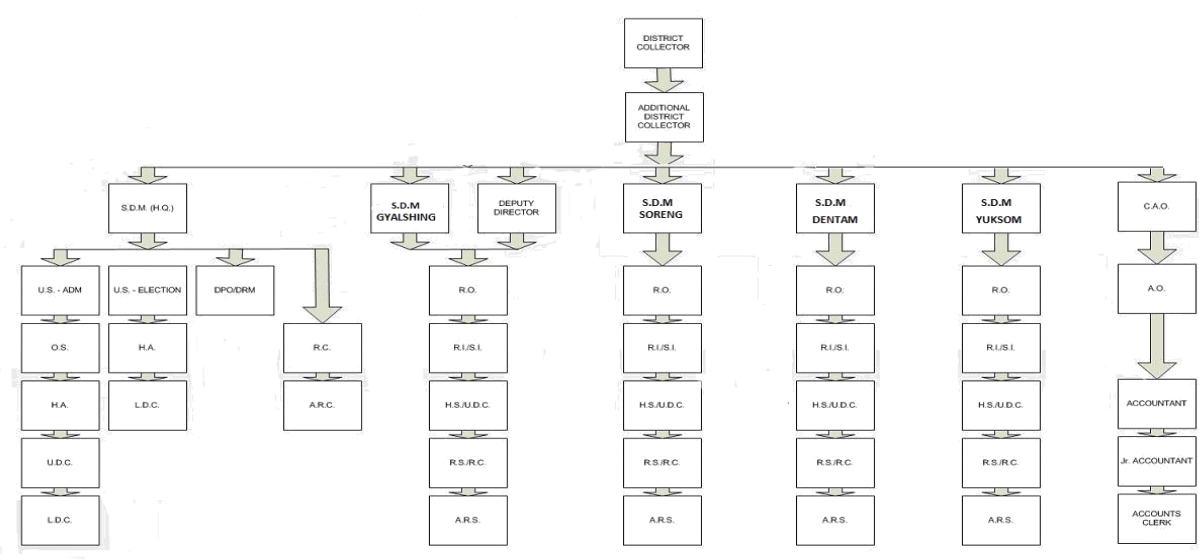
Longitudes. It is the second largest district in the Indian state of Sikkim with an area of 1,166 sq km. The headquarters of the district is at Gyalshing, also known as Geyzing. The town is connected to the capital Gangtok by a metalled road. Geyzing is also connected to the West Bengal towns of Darjeeling and Kalimpong via Jorethang. The town has a large Nepali population, and the Nepali language is the predominant language of the region. The other language spoken here are Bhutia, Lepcha, Limbu, Newari, Rai, Gurung, Mangar, Sherpa, Tamang, Sunwar etc. The town is situated at an altitude of about 6,500 feet (1,900 m). The town enjoys a temperate climate for most of the year and snow sometimes falls in the vicinity. Other important towns include Pelling, Yuksom and Dentam. The district shares its borders with South Sikkim and North Sikkim in the east and north respectively and with the state of West Bengal in the south. It also has an international border with Nepal to its west.

The district is a favourite for the trekkers due to the high elevations. Here economy is mainly agrarian, despite most of the land being unfit for cultivation owing to the precipitous and rocky slopes.

a. District Administrative Set-up

The West District with its head quarter at Gyalshing is headed by the District collector who is in charge of the overall administration of the district and co-ordinates the functioning of all other state government department departments and PSUs within the district.

The office of the District collector has several sections which are supervised by various officers of the rank of Sub-Divisional Magistrates and Deputy Director. The District collector is supported by the Additional District Collector who looks after certain sections of the Collectorate.



b. Natural Resources: River Systems : Rathang Chu , Rimbi Khola , Relli Chu , Kalej Khola , Reshi Khola are the major rivers of the West District. All of the above rivers flow from west to east direction

and drain into Rangit River which flows along the eastern boundary of the district. Another Important river Ramam Khola flows along the southern boundary of the district which merges with Rangit River at Nayabazar in West Sikkim. Rangit river from the confluence of Rathang Chu and Kayam Chu flows for 42 kms before it merges with Teesta.

West Sikkim has a wide network of stream and rivers which are well distributed throughout the district. Rathong Glacier is an important source of water in the district. The district also has many lakes and wetlands. 32 lakes have been identified and documented out of which Khecheopalri Lake , Karthok Lake , Samiti Lake , Laxmi Pokhari are the prominent ones. Khecheoplari Lake has cultural , religious , ecological significance and is one of the most important wetland and bird area of Sikkim.

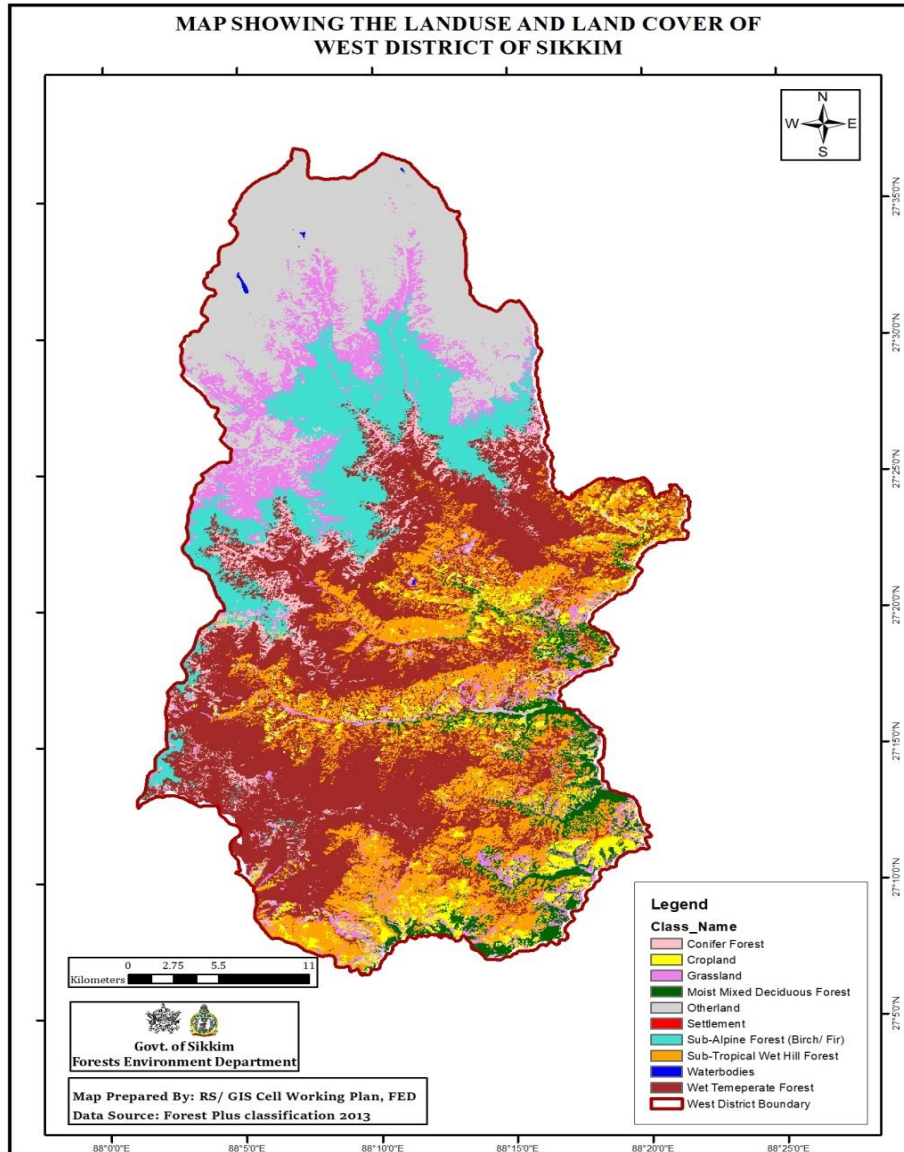
West District has a geographical area of 1166 Ha. according to 2019 assessment 246.85 Ha. is covered by Very Dense Forest. 363.03 Ha. is covered by Moderately Dense Forest and 164.02 Ha. is under Open Forest , making at cumulative total of 773.90 Ha under Forest Cover , which is 66.37% of the geographical area. The major forest types In the district is as follows :

c. Geography & Demography: West district is the second largest (1166 sq. km.) in area but in term of population it is the third highest (136,435) with (77.39) per cent of literacy rate it stands at the fourth rank. West district also has the third highest proportion of scheduled caste (5,935) and second highest Scheduled Tribes (57,817) population. West district has an urban population 5,248 which is 3.42 % of its total population. The table shows decadal change in population for West District.

1.	Area	116600 Hectors
2.	Population	136,435 (2011 census)
3.	Rural Population	131187
4.	Urban Population	5248
5.	Decadal Growth Rate	10.69%
6.	Decadal variation urban population	187.72%
7.	Decadal variation rural population	8.03%
8.	Sex Ratio	942
9.	Scheduled Cast Population	5935
10.	Scheduled Tribe Population	57817
11.	Literacy Rate	77.39%

d. Land-use pattern:

Geographical Area	116600 Hectares
Area Under Forest Cover	83473 Hectares
Net Sown Area.	16600 Hectares
Cropped Area	29600 Hectares
Area Irrigated	2054 Hectares



e. Climate: West District comes under Eastern Himalayan Region (II) Agro climatic zone. In summers the average temperature hovers between 17°C to 27°C and winter temperatures across the district have a range of 02 °C to 21 °C. The district experiences occasional hailstones whereas landslides are a common occurrence in the district especially during the monsoon season. The district experiences about 1963.7mm of rainfall under the influence of S-W monsoon from June to September. 199.6mm of rainfall due to N-E monsoon from October – December , 184.17mm during the winter months of January-March and 711mm during the summers April to May. Average annual rainfall is about 3000mm. The higher elevation areas of the district experiences snowfall, with some of the mountain peaks remains snow covered for most parts of the year.

2.0 Indicative Gap Analysis and Action Plans for complying with Waste Management Rules

(i) Solid Waste Management

a. Current status related to Solid Waste management:

Sl. No.	Urban Local bodies	No of Wards	No of Households	Population	Solid Waste Generated per day
1	Municipal corporations (Nagar Nigam or Mahanagar Palika)	-	-	-	-
2	Municipalities (Nagar Palikas)	-	-	-	-
3	Nagar Panchayats (Town area Councils)	5	881	4013*	3.5 TPD

*As per annual report 2020-21

Sl. No.	Local Bodies	No of Village panchay ats /Blocks	No of Househol ds	Population	Solid Waste Generated per day
1	Block /Taluk / Mandal Tehsils	10	24,646	121,764**	11.987 TPD
2	Village/Gram Panchayats	348/61			

** As per annual report 2020-21

a. Identification of gaps and Action plan:

S. No.	Action points For villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
1.	Segregation				
(i)	Segregation of waste at source	Dry and Wet Waste segregation is being done at source i.e household level.	Continuation of current practice and enhanced awareness for further refinement of the process	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process
2.	Sweeping				
(i)	Manual Sweeping	Gaps have not been seen currently.	Continuation of current practice	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process

S. No.	Action points For villages / blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
(ii)	Mechanical Road Sweeping & Collection	Not available.	Sweeping is done manually in town areas	Urban Development Department	Continuous process
3	Waste Collection				
(i)	100% collection of solid waste	85.71%	Prepared and Notified vide Govt. of Sikkim Gazette Notification no. 4/UD&HD dated 29/04/2019	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process
(ii)	Arrangement for door to door collection	100%	Specified in the action plan.	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process
(iii)	Waste Collection trolleys with separate compartments	5 nos. are available at the moment	Procurement list has been submitted to UDD. Govt. of Sikkim	Urban Development Department, Rural Development Department,	Continuous process

				District Administration, Block Administrative Centres, Gram Panchayat Units.	
(iv)	Mini Collection Trucks with separate compartments	Currently no trucks of such specifications are available	Procurement list has been submitted to UDD. Govt. of Sikkim	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	
(v)	Waste Deposition centres (for domestic hazardous wastes)	Improper segregation due to lack of awareness leads to admixing of DHW in solid waste.	Specified in the action plan. SPCB-Sikkim has donated separated labeled DHW collection bins to authorities for use during waste collection.	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process
4.	Waste Transport				
(i)	Review existing infrastructure for waste Transport.	09 vehicles for Geyzing Nagar Panchayat. Inventorisation for BACs & GPUs under progress	Specified in the action plan.	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process

District Environment Plan [West]

(ii)	Bulk Waste Trucks	Nil	BW generators are not available in the district. Most of the local vegetable market/Bazaar/mandis leftovers are collected by local people as animal feed.	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process
(iii)	Waste Transfer points	1	Specified in the action plan.	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process
5	Waste Treatment and Disposal				
(i)	Wet-waste Management: On-site composting by bulk waste generators (Authority may decide on requirement as per Rules)	No BW generators in the district currently	Shall be installed if necessary after survey and identification	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	

District Environment Plan [West]

(ii)	Wet-waste Management: Facility(ies) for central Biomethanation / Composting of wets waste.	No facility for composting has been set up.	Specified in the action plan. Under SBM(G) Mission Phase II all 32 blocks of the state is under the process of setting up community compost pits	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres	
(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction	Yes.	Specified in the action plan. Recyclable waste is transported to Rekart Solutions. The Rural Development Department has selected 2 Divisions in the district and 4 GPUs Dentam, Gyalshing, Mangalbarey and Soreng as model villages for compliance to the directions of Hon'ble NGT in the matter of 606/2018. Setting up of RRC in all blocks is under process. Selection of RDF firm for the state is under process by UDD, Govt. of Sikkim	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	
(iv)	Disposal of inert and non-recyclable wastes: Sanitary Landfill	Dumpsite located at Sipsu. Currently the State Government is under process to convert the same into a sanitary landfill facility	Under process. The Rural Development Department has selected 2 Divisions in the district and 4 GPUs Dentam, Gyalshing, Mangalbarey and Soreng as model villages for compliance to the directions of Hon'ble NGT in the matter of 606/2018. Construction of RRC in all 32 blocks in the state is under process	Urban Development Department, Rural Development Department,	
(v)	Remediation of historic / legacy dumpsite	yes	Selection of Bio-mining firm for remediation under process	Urban Development Department	

(vi)	Involvement of NGOs	Yes	Specified in Action plan. NGOs such as Khangchendzonga Conservation Committee (KCC) have been involved with assisting the Department of Forest & Environment Department to ensure that all plastic waste in the Khangchendzonga National Park is accounted for. They have also set up RRCs for the solid waste management in Yuksom.	Urban Development Department, Rural Development Department,	Continuous Process
(vii)	EPR of Producers: Linkage with Producers / Brand Owners	Till date no plastic waste collection centre has set up by brand owners in the district or has submitted proposal of such kind.	The SPCB-Sikkim has initiated registration of single use plastic manufacturers and producers in the state as per the new SOP prepared by CPCB. Licensing authorities have been directed to prepare inventory of brand owners of authorized dealers	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, State Pollution Control Board-Sikkim.	Continuous process
(viii)	Authorisation of Waste Pickers	Yes	Information available with MEO, Geyzing, Nayabazar-Jorethang & Namchi.	Urban Development Department, Rural Development Department, Block Administrative Centres	Completed
(ix)	Preparation of own by-laws to comply with SWM Rules 2016	Yes	Prepared and Notified vide Govt. of Sikkim Gazette Notification no. 5/UD&HD dated 29/04/2019	Urban Development Department & Rural Development Department	Completed

Note : “State Policy and Strategy on Solid Waste (Action Plan)” and “Bye- laws of solid waste Management & Handling cleanliness and sanitation for urban sector in Sikkim” has been enclosed as Annexure I & II respectively

(ii) Plastic waste Management**a) Current status related to Plastic waste management**

Sl. No.	Urban Local bodies	Estimated quantity of Plastic Waste Generated per day
1	Municipal corporations (Nagar Nigam or Mahanagar Palika)	
2	Municipalities (Nagar Palikas)	
3	Nagar panchayats (Town area Councils)	15.06 kg/day

SL. No.	Local Bodies	Plastic Waste Generated per day
2	Block /Taluk / Mandal Tehsils	Not provided
3	Village/Gram Panchayats	Not provided

b) Identification of gaps and Action plan:

S.No.	Action points For village panchayats/ blocks/ municipalities / corporations	Identificati on of gap	Action plan	Agencies Responsible	Target timefor Compliance
1.	Door to Door collection of dry waste including PW	100%	Complied.	Urban Development Department, Rural Development Department, District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process.
2.	Facilitate organised collection of PW at Waste transfer point or Material	All dry waste is trasported to dumpsite located in Sipsu. • material recovery	Ban of sale and use of plastic carry Bags have been notified in Urban and rural areas. Bulk	Urban Development Department, Rural Development Department, Forest & Environment Department District	Continuous process.

	Recovery Facility	<p>facility available</p> <ul style="list-style-type: none"> • Involvement of informal sector / NGO initiated and under process • Registering waste pickers under process • Linkage with Rekart Solutions Pvt. Ltd. • Till date no plastic waste collection centre has set up brand owners in the district or has submitted proposal of such kind. 	<p>quantity of plastics generated from packaging material of consumer goods. Ban on burning of waste has been notified. Ban on use of packaged during water in government function/ meetings have been notified. Ban on Sale and Use of Styrofoam products/cutlery has been notified.</p>	<p>Administration, Block Administrative Centres, Gram Panchayat Units.</p>	
3.	PW collection Centres	<p>Till date no plastic waste collection centre has set up by brand owners in the district or has submitted proposal for EPR of such kind to the authorities.</p>	<p>The SPCB-Sikkim has initiated registration of single use plastic manufacturers and producers in the state as per the new SOP prepared by CPCB. Licensing authorities have been</p>	<p>Urban Development Department, Rural Development Department</p>	

			directed to prepare inventory of brand owners of authorized dealers in order to implement the provisions of Rule 9 i.e. Responsibilities of producers, Manufacturers and Brand Owners under the Plastic Waste Management Rules, 2016		
4.	Awareness and education programs implementation	Continuous process	Conducted by SPCB-Sikkim in coordination with UDD, RDD, MSME, Krishi Vigyan Kendra and District Authorities. Street plays conducted, videos and jingles have also be released by SPCB-Sikkim	Urban Development Department, Rural Development Department, Forest & Environment Department District Administration, Block Administrative Centres, Gram Panchayat Units.	Continuous process
5.	Access to Plastic Waste Disposal Facilities	Yes	Located at west Bengal. Recycling facilities for plastic waste has not been set up in the state	Urban Development Department, Rural Development Department	

(iii) C&D Waste Management

a. Current status related to C & D Waste

Details of Data Requirement	Present Status
Total C & D waste generation in MT per day (As per	Not available

data from Municipal Corporations / Municipalities)	
Does the District has access to C&D waste recycling facility?	No

b. Identification of gaps and Action plan

S. No.	Action points for blocks/town municipalities/City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Arrangement for separate collection of C&D waste to C&D waste deposition point.	NA	NA	NA	NA
2.	Whether local authority have fixed user fee on C&D waste and introduced permission system for bulk waste generators who generate more than 20 tons or more in one day or 300 tons per project in month?	NA	NA	NA	NA
3.	C&D recycling Facility	NA	NA	NA	NA

4.	Usage of recycled C&D waste in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads	NA	NA	NA	NA
5.	ICE on C & D waste management	NA	NA	NA	NA

Note: Action plan on C&D waste has been prepared and is under process for approval. The details for the same shall be provided after final approval by the State Government.

(iii) Biomedical Waste Management

a. Current Status related to biomedical waste

Inventory of BMW in the District	Quantity
Total no. of Bedded Healthcare Facilities	8
Total no. of non-bedded HCF	47
No. of HCFs authorized by SPCBs/PCCs	55
No of Common Biomedical Waste Treatment and Disposal Facilities (CBWTFs)	nil
Capacity of CBWTFs	NA
No. of Deep burials for BMW if any	30 nos.
Quantity of biomedical waste generated per day	41.32 kg/day
Quantity of biomedical waste treated per day	41.32 kg/day

b. Identification of gaps and Action plan:

S. No.	Action points for blocks/town municipalities/City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory and Identification of Healthcare Facilities	No	Inventory has been prepared by SPCB and submitted to CPCB	Department of Health & Family Welfare, SPCB – Sikkim	Completed. The same shall be updated in the future if any changes occur.

District Environment Plan [West]

2.	Adequacy of facilities to treat biomedical waste	No gaps. BMW generated in all HCFs undergo captive treatment within the facility itself	Proposal for CHWTSDF and CBWTF is in process. 90% payment for Land Acquisition completed.	Department of Health & Family Welfare, Department of Commerce & Industries SPCB – Sikkim	
3.	Tracking of BMW	No gaps	Currently all BMW generated in HCFs undergo captive treatment within the facility itself. The implementation of Barcode system is currently not required. The same shall be implemented once the CBWTF is established & operational	Department of Health & Family Welfare,	Continuous process
4.	Awareness and education of healthcare staff	No gaps	Capacity Building, awareness and training has been conducted for all healthcare workers to ensure proper management of BMW in the HCFs including COVID19 waste	Department of Health & Family Welfare, SPCB – Sikkim	Continuous process
5.	Adequacy of funds	Whether adequate funds is allocated to Govt. HCFs for BMW management by the State Govt.?	Fund allocation has been specified in Action plan	Department of Health & Family Welfare,	Continuous process
6.	Compliance to Rules by HCFs and CBWTFs	Committee formed	Specified in Action plan	Department of Health & Family Welfare	Continuous process
7.	District Level Monitoring Committee	Committee formed along with Advisory body	Formation of the committee and advisory body notified by State Government	Department of Health & Family Welfare	Continuous process

District Environment Plan [*West*]

8.	Wastewater Treatment	Required	Preparation of action plan has been communicated to implementing department	Department of Health & Family Welfare	Continuous process
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Note: Action Plan on Bio-Medical Waste Management for the State of Sikkim (2019) has been attached as Annexure III

(v) Hazardous Waste Management**a. Current Status related to Hazardous Waste Management**

[Major source of hazardous waste (HW) is industries and facilities located in the districts, who are required to be regulated under Water (P&CP) Act 174, Air (P&CP) Act 1981 and E(P) Act, 1986 and the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and the rules notified thereof. Many commercial establishments like automobile repair shops, paint workshops, stores, etc. may also generate small quantities of hazardous waste. The district administration should be aware of the type of hazardous waste generation in their district and adequacy of facilities for safe handling and disposal within or outside District. Linkage of district administration with common TSDFs in the State is necessary to establish system for safe disposal of domestic hazardous waste. However, since no CHWTSDF has been established in the state, the SPCB-Sikkim has initiated agreements & facilitated transport & disposal of HW generated in the state to TSDF & recycling plants in West Bengal and Cement Plants in Assam & Meghalaya]

Details of Data Requirement	Present Status
No of Industries generating HW	NIL
Quantity of HW in the district	NIL
(i) Quantity of Incinerable HW	NIL
(ii) Quantity of land-fillable HW	NIL
(iii) Quantity of Recyclable / utilizable HW	NIL
No of captive/common TSDF	NIL
Contaminated Sites or probable contaminated sites	NIL

b. Identification of gaps and action plan

S.No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Regulation of industries and facilities generating Hazardous Waste	Inventorisation of industries that may require authorisation is completed and online authorisation process has been initiated for Hydro Electric Power Plants, which are the only industries located in the district	Inventorisation of industries that may require authorisation is completed and online authorisation process has been initiated for Hydro Electric Power Plants, which are the only industries located in the district	SPCB	Complied
2.	Establishment of collection centres	none	All HW generated in the state is transported to : 1. West Bengal Waste Management Ltd., Haldia, West Bengal for incineration; 2. Calcom Cement, Assam for co-processing; and 3. Kundu Refinery, West Begal for recycling	SPCB-Sikkim, Occupier	Complied

3.	Training of workers involved in handling / recycling / disposal of HW	None	The SPCB –Sikkim during grant of authorisation ensures that the Emergency Response Procedure has been prepared by the occupier. It has also been specified in the Specific conditions of the authorisation to ensure safety of the people handling HW, procure spillage kits and provide PPEs. Compliance to the provisions of the Hazardous Waste (Management & Transboundary Movement) Rules, 2016 and authorisation is verified in every inspection conducted by SPCB officials	SPCB-Sikkim, Department of Labour, Occupier	Complied
4.	Availability / Linkage with common TSDF or disposal facility	No gaps.	All HW generated in the state is transported to : 1. West Bengal Waste Management Ltd., Haldia, West Bengal for incineration; 2. Calcom Cement,	SPCB-Sikkim, Occupier	Complied

			Assam for co-processing; and 3. Kundu Refinery, West Bengal for recycling		
5.	Contaminated Sites	No gaps	No area in the State of Sikkim has been listed in the 112 Contaminated sites and 168 Probable contaminated sites in the country	SPCB-Sikkim	Action not necessary

(vi) E-Waste Management

a. Current Status related to E-Waste Management

Details of Data Requirement	Present Status
Inventory of E-Waste in MT/year	Gyalshing Nagar Panchayat submitted NIL report of E-Waste during 2019-20
Collection centers established by ULBs in the District	1 Nos.
Collection centers established by Producers or their PROs	NIL
No authorized E-Waste recyclers/Dismantler	NIL

b. Identification of gaps and action plan:

S. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory / Generation of E-Waste / Bulk-waste generators	Inventory preparation has been delayed as many of the bulk consumers do not provide information	Information Education & Communication (IEC) Plan from Information Technology Department is awaited for completion of inventory.	Information Technology Department With SPCB.	
2	E-Waste collectionpoints	Till date no collection centre has been set up by producers in the district or has submitted proposal for EPR of such kind to the authorities	Only one(1) collection centre established by ULB in West District. Licensing authorities have been directed to prepare inventory of of authorized dealers in order to implement the ERP provisions of the E-waste Management Rules, 2016.	Gylashing Nagar Panchayat. UDD.	
3	Linkage among Stakeholders to channelize E-Waste	Till date no collection centre has been set up by producers in the district or has submitted proposal for EPR of such kind to the authorities	All e-waste generated in the state is transported to Authorized recycling centre, M/s J.S. Pigments located in West Bengal	District Administration (West) Gyalshing Nagar Panchayat. UDD.	
4.	Regulation of Illegal E-Waste recycling / dismantling	No such action has been observed or reported till date.	Regular monitoring by District Administration/UDD/RDD/SPCB	DA UDD RDD SPCB	Regular activity.
5	Integration of informalsector	All e-waste generated in the state is collected and transported to authorized recycling facility. Informal sector for the same is not	IEC plan awaited from IT Department, Govt. of Sikkim.	UDD RDD	

		practiced in the state.			
6	Awareness and Education	None	Conducted by SPCB-Sikkim in coordination with UDD, RDD, MSME, NIELIT, Krishi Vigyan Kendra and District Authorities.	DA UDD RDD SPCB	Regular activity.

(vii) Air Quality Management

a. Current Status related to Air Quality Management

Details of Data Requirement	Present Status
Number of Automatic Air Quality monitoring stations in the district. - Operated by SPCB / State Govt / Central govt./ PSU agency : - Operated by Industry:	Nil
Number of manual monitoring States operated by SPCBs	01 at Pelling
Name of towns / cities which are failing to comply with national ambient air quality stations	None
No of air pollution industries	NIL
Prominent air polluting sources [Large Industry] / [Small Industry] / [Unpaved Roads] / [Burning of Waste Stubble] / [Brick Kiln] / [Industrial Estate] / [Others] (Multiple selection)	Vehicular Emission , Dust arising from construction , Stone Crusher Units , Hot Mix Plants , DG Sets.

b. Identification of gaps and action plan:

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan
1.	Identification of prominent air polluting sources?	Inventorisation of air pollution source in the district.	SPCB in co-ordination with District Administration Forest & Environment Department	1 year.
2.	Ambient Air quality data?	Ambient air quality data available in the website : www.spcb.sikkim.gov.in	SPCB	Regular activity.
3.	Setting up of Continuous Ambient Air Quality Monitoring Station	Proposal for setting up of Continuous Ambient Air Quality Monitoring Station shall be submitted in consultation with District Administration.	SPCB with District Administration	1 Year.
4.	District Level Action Plan for Air Pollution	District Level Action Plan shall be prepared as per the guidelines of CPCB and MoEF&CC.	SPCB in consultation with District Administration	1 Year
5.	Hotspots of air pollution in District	Burning of waste (agricultural & solid) has been banned vide Notification No. 191/FEWMD dated 05/01/2015. In case of non compliances byelaws have been notified for imposition of fine from GPU level	SPCB in coordination with District Administration	1 Year
6.	Awareness on Air Quality	Air quality index of the State is readily available in the website : www.spcb.sikkim.gov.in further planning shall be done for more awareness.	District Adm. & SPCB	Regular activity.

(viii) Water Quality Management**Water Quality Monitoring****a. Current Status related to Water Quality Management**

Details of Data Requirement	Present Status	
Rivers		3.902825
		4.102349
		3.19664
	Rani Khola West	4.721164
	Riyong Khola West	11.699194
	Ribdi Khola West	5.134036
		5.235226
		4.479806
	Kali Khola West	6.904465
	Lingsur Khola West	8.393374
	Pale Khola West	8.087139
	Rangsang Khola West	5.503003
	Hi Khola West	6.465309
	Dentam Khola West	8.38344
	Bega Khola West	6.593134
	Simchar Khola West	6.869404
	Sigeng Khola West	2.87873
		1.931377
	2.335269	
	2.134619	
Pareng Khola West	2.477253	

Mardom Khola West	3.576297
Pharik Khola West	3.934741
Barmo Khola West	3.768423
Lungman Khola West	5.563501
Thar Khola West	4.990884
Chhamam Chhu West	7.479933
Pongmirang Chhu West	8.498266
Phamrung Chhu West	7.536994
Dhap Chhu West	5.594141
Yangsa Chhu West	7.372909
Heri Khola West	4.947928
Nambu Khola West	4.606338
Taphel Khola	2.471671
Chisung Khola	2.075887
Prek Chu	18.671229
Choktsering Chu	6.926286
Rungji Chhu	6.1178
Koklung Chhu	7.224099
Reli Chhu	8.129047
Rungdung Khola	2.261764
Dadar Khola	2.735261
Ledo Khola	4.548425
Chokchurang Chu	10.104184
Tikip Chuu or Tikibla Chhu	9.077016

District Environment Plan [West]

	Rishi Khola West Skm	15.164426
	Bholujhoreni Chhu	6.876574
	Gomathang Chhu West	11.127628
	Simpok Khola	9.102377
		4.646668
		5.36257
	Nar Khola West	5.786
	Source: Survey of India Toposheet.	
Length of Coastline (if any)	N/A	
Nalas/ Drains/Creeks meeting Rivers	Not Available	
Lakes / Ponds	55 nos of lakes and ponds with total area of 139.8917 ha	
Total Quantity of sewage from towns and cities in District	Information not available	
Quantity of industrial wastewater	Nil	
Percentage of untreated sewage	Information not available	
Details of bore wells and number of permissions given for extraction of groundwater	Nil	
Groundwater polluted areas if any	NA	
Polluted river stretches if any	Rangit River Stretch (appx 50km) NHPC Dam site to Triveni. As per the CPCB standard for having Bio Chemical Oxygen Demand more than 3mg/Ltr. Hence falling under priority V category.	

b. Identification of gaps and action plan for water quality monitoring:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory of water bodies	Inventory of water bodies is being monitored by Department of Forest & Environment. SPCB-Sikkim conducts regular monitoring of river water quality under the NWMP programme and the analyzed data is available in the SPCB website. River Rejuvenation Committee has been notified as the State Nodal agency to ensure compliance to the environmental norms and monitor the actions of the implementing departments. RRC is also undertaking the Inventorisation of water bodies.	Department of Forest & Environment, SPCB-Sikkim, Department of Water Resources & River Development, Department of Public Health & Engineering	Continuous activity
2.	Quality of water bodies in the district	Conducted by SPCB-Sikkim	SPCB-Sikkim	Continuous activity
3.	Hotspots of water contamination	RRC has been setup and report for delisting of the 4 identified river stretches has been submitted to the CPCB	Department of Forest & Environment, SPCB-Sikkim, Department of Water Resources & River Development	Continuous activity
4.	Protection of river / lake water front	Action plan prepared and bye laws have also been notified for implementation.	District Adm SPCB UDD RDD Forest & Environment.	Continuous activity
5.	Inventory of sources of water pollution	Prepared	Forest & Environment, SPCB	Continuous activity

District Environment Plan [*West*]

6.	Oil spill disaster management (for coastal districts)	N/A	N/A	N/A
7.	Protection of flood plains	N/A	N/A	N/A
8.	Rejuvenation of groundwater	Practice of ground water abstraction for domestic and commercial purposes is not done in the district.	Department of Forest & Environment, Department of Water Resources & River Development,	Continuous activity
9	Complaints redressal system	Available at SPCB-website	SPCB-sikkim for pollution related complaints	Continuous activity

ix) Domestic Sewage

a. Identification of gaps and action plan for treatment of domestic sewage

Details of Data Requirement	Present Status
No of Class-II towns and above	Nil
No of Class-I towns and above	Nil
No of Towns STPs installed	Nil
No of Towns needing STPs	2
No of ULBs having partial underground sewerage network	Nil
No of towns not having sewerage network	2
Total Quantity of Sewage generated in District from Class II cities and above	Class II cities not present in the district. As per 2011 census and assuming 100 lpcd average water consumption the estimated sewage generation in the district will be

	10.91MLD.
Quantity of treated sewage flowing into Rivers (directly or indirectly)	All households are required to construct a septic tank for sewage management. In implementation of Swacch Bharat Mission Gramin Phase II, installation of septic tanks for individual households in 64 village are under process.
Quantity of untreated or partially treated sewage (directly or indirectly)	Not available
Quantity of sewage flowing into lakes	Nil
Total available Treatment Capacity	STPs have not been set up. Survey and investigation for the same under process.

b. Identification of gaps and action plan for treatment of domestic sewage:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Sewage Treatment Plants (STPs)	STPs have not been set up. Survey and investigation for the same under process. Action Plan for setting up of STPs in the state has been prepared	Public Health & Engineering Department	2028
2.	Underground sewerage network	Not available	Public Health & Engineering Department	

Note: Action Plan prepared by PHE department enclosed as Annexure IV

x) Industrial wastewater management

a. Current Status related to Industrial Wastewater Management

Number of Red, Orange, Green and White industries in the District	NIL , Water based industries have not been established in West District.
No of Industries discharging wastewater	Nil
Total Quantity of industrial wastewater generated	Nil
Quantity of treated industrial wastewater discharged into nalas / Rivers	Nil
Common Effluent Treatment Facilities	Nil
No of Industries meeting Standards	NA
No of Industries not meeting discharge Standards	NA

b. Identification of gaps and action plan for industrial wastewater: till date no water based industries requiring effluent treatment plants have been established or are operating in the district.

xi) Mining Activity Management plan

a. Current Status related to Mining Activity Management

Details of Data Requirement	Existing Mining operations
Type of Mining Activity	Temporary collection of loose boulders, sand & stone
No of licensed Mining operations in the District	12

% Area covered under mining in the District	0.0046%
Area of Sand Mining	0.05371 km ²
Area of sand Mining	River banks

b. Identification of gaps and action plan

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion
1.	Monitoring of Mining activity	District Expert Appraisal Committee has be formed	Department of Mines & Geology	Continuous & activity
2.	Inventory of illegal mining if any mining	Action plan to identify illegal sand and other mining activity in the District through surveillance, patrolling and enforcement. District Level task Force may be constituted for control of illegal mining activity	Department of Mines & Geology	
3.	Environment compliance by Mining industry	Action plan for periodic verification of compliance to environmental conditions stipulated by SPCBs/PCC, MoEF&CC department of mines etc. SPCBs/PCC may be involved in this activity .	Department of Mines & Geology	

xii) Noise Pollution Management plan

Current Status related to Noise Pollution Management

Details of Data Requirement	Measurable Outcome
No. of noise measuring devices available with various agencies in district	SPCB Sikkim – 3 nos

b. Identification of gaps and action plan:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Availability of Sound/Noise Level Meters.	Procurement of Sound/noise level meters in process	District Administration, Police Department & SPCB-Sikkim	3 months
2.	Ambient Noise Level monitoring.	Various sensitive zones such as protected areas, hospitals etc have been declared as silent zones Noise monitoring during festival season is conducted by SPCB-Sikkim	UDD, District Administration, Police Department & SPCB-Sikkim	6 months
3.	Signboards in Noise zones	District administration may ensure that adequate number of signboards installed at sensitive zones in towns / cities in towns and cities. An action plan may be prepared by district authority.	District Administration	
4.	Complaint redressing system	Redressal portal has been set up in SPCB website	UDD, District Administration, Police Department & SPCB-Sikkim	

Note : State Action Plan for Control of Noise pollution enclosed as annexure V

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