

# STATE POLLUTION CONTROL BOARD- SIKKIM FOREST & ENVIRONMENT DEPARTMENT GOVERNMENT OF SIKKIM DEORALI-GANGTOK

## **ANNUAL REPORT 2019-2020**

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#### INTRODUCTION

The State Government entrusted the implementation of Water (Prevention & Control of Pollution) Act, 1974 through Notification No. 51(7)/Home/88/868 dated 21/07/1988 to Land Use and Environment Board and the Act came into force with effect from 25/02/1989 in the State vide Notification No. 1(4)F/89/214 dated 17/07/1989.

The State Pollution Control Board- Sikkim (SPCB-Sikkim) was created under the provision of Sub-Section (1) of Section 4 of the Water (Prevention & Control of Pollution) Act, 1974 vide Government Notification No. 30/Home/2008 dated 19/03/2008 published in Extraordinary Gazette vide No. 119 dated 10/04/2008.

The main function of SPCB-Sikkim is to act as a regulatory as well as an advisorybody. Under the advisory function, SPCB-Sikkim advises the state government in terms of measures to be taken for prevention, control and abatement of pollution and under the regulatory function, the SPCB- Sikkim is bestowed with the power of implementation of different Acts and Rules pertaining to Environment Pollution Control.

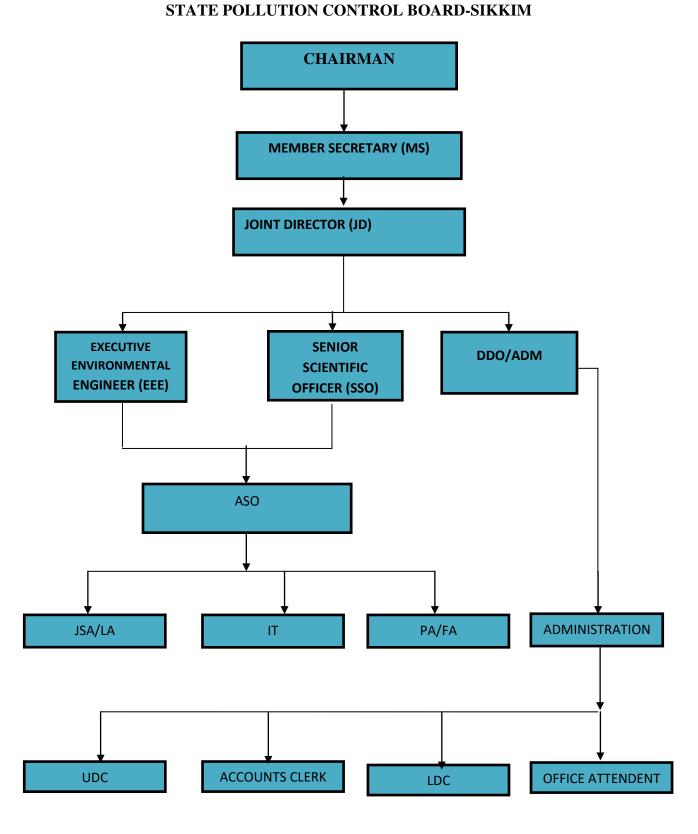
The State Pollution Control Board-Sikkim implements the following Acts and Rules in the State of Sikkim.

- i. Water (Prevention & Control of Pollution) Act, 1974
- ii. Air (Prevention & Control of Pollution) Act, 1981
- iii. Environment (Protection) Act. 1986
- iv. The Public Liability Insurance Act, 1991.
- v. Hazardous & Other Wastes(Management & Transboundary Movement) Rules, 2016;
- vi. Bio-Medical Waste Management Rules, 2016;
- vii. Solid Waste Management Rules, 2016;
- viii. Plastic Waste Management Rules, 2016;
- ix. E-Waste(Management) Rules, 2016;
- x. Construction & Demolition Waste Management Rules, 2016;
- xi. The Noise Pollution (Regulation & Control) Rules, 2000.
- xii. Batteries (Management & Handling) Amendment Rules, 2000;
- xiii. Environmental Impact Assessment Notification, 2006;

SPCB-Sikkim works under the administrative control of Forest and Environment Department, Government of Sikkim.

With the increase in population pressure, industrialization, urbanization and massive developmental activities, the duties of SPCB have increased manifold and in order to implement the different provisions of the Acts and Rules, SPCB-Sikkim has inducted different scientific and technical manpower to strengthen the functions of SPCB viz., Scientist B, Environmental Engineer, Junior Scientific Assistants, Laboratory Assistants, Project Assistants and Field Attendants.

Chapter-2
ORGANISATIONAL CHART (2019-2020)



#### STRUCTURE OF STATE POLLUTION CONTROL BOARD SIKKIM (2019-2020)

#### Constitution of State Pollution Control Board Sikkim during 2019-2020:

- 1. Chairperson
- 2. PCCF-cum-Principal Secretary Forests and Environment
- 3. Secretary, Urban Development Department
- 4. Secretary, Public Health Engineering Department
- 5. Secretary, Transport Department
- 6. Principal Director, Health Department
- 7. Deputy Mayor, Gangtok Municipal Corporation
- 8. Up Adhyakshas North, South, East and West Districts
- 9. Shri. T. Tashi Bhutia
- 10. Dr. M. P. Thapa
- 11. Member Secretary

#### Manpower deployment under SPCB during 2019-2020

- 1. Joint Director-1
- 2. Senior Scientific Officer-2
- 3. Executive Environmental Engineer-1
- 4. Drawing and Disbursing Officer-1
- 5. Assistant Scientific Officer-1
- 6. Junior Scientific Assistant- 4
- 7. Laboratory Assistant- 5
- 8. Project Assistant- 5
- 9. Field Assistant-11
- 10. Accounts & Administrative Staff- 16

#### OVERVIEW OF MAJOR PROGRAMMES AND ACHIEVEMENTS

#### A. NATIONAL AIR MONITORING PROGRAMME (NAMP):

With the increase in urbanization and establishment of industrial units in the state mostly the pharmaceutical formulation and its ancillary units and bottling and breweries plants, the SPCB-Sikkim under the National Air Monitoring Programme (NAMP) has established nine (09) Air Quality Monitoring (AQM) stations in order to monitor the air quality in the state. The entire state of Sikkim has been declared as an Air Pollution Control Area under Gazette notification no. 506 dated 08/09/2011. The details of the monitoring stations are as under:

Sl. no	Name of		
	monitoring station :	Latitude <sup>o</sup> N	Longitude <sup>o</sup> E
1.	RANGPO	27.1736	88.5305
2.	SINGTAM	27.5144	88.4969
3.	DEORALI	27.3183	88.6063
4.	RAVANGLA	27.3075	88.363
5.	NAMCHI	27.17	88.35
6.	PELLING	27.3028	88.2344
7.	CHUNGTHANG	27.6033	88.6469
8.	MANGAN	27.5025	88.5358

<sup>\*</sup>The 9<sup>th</sup> station located atTashi View point, Gangtok was damaged due to landslide and currently not in operation.

In order to run these AQM stations the SPCB- Sikkim has inducted 07 Project Assistantsand 14 Field Assistants (contractual basis) and the Board has also established 07 laboratories for carrying out analytical work of air quality parameters in the respective locations.. The AQM is conducted twice a week. As per the study/finding it is seen that Air Quality Index of the State is good and well within the standards prescribed both for PM 10 and other parameters. The data so generated is being forwarded to CPCB for further analysis. The annual report (2019-20) of ambient air quality has been dealt at Chapter-10.

#### **B. NATIONAL WATER MONITORING PROGRAMME (NWMP):**

SPCB-Sikkim has established 09 Water Quality Monitoring Stations in River Teesta basin and 05 Water Quality Monitoring Stations in River Rangit basin under NWMP.

The major objectives of water quality monitoring are:

- To regulate pollution of the discharge or effluents, if any, reaching the water bodies.
- To identify any deficiency in water quality and to implement water pollution control strategies.
- To determine the effect of water qualityon human health.
- To determine long term trends in water quality.

#### The details of the monitoring stations are as under:

Sl. No.	Station Code	Name of Station	Latitude °N	Longitude°E
1.	1801	River Teesta after confluence of Rivers Lachenchu and LachungchuCHUNGTHANG, North Sikkim.	27.602	88.649
2.	1802	River Dikchu before confluence with River Teesta near NHPC hydro- electric power project, <b>DIKCHU</b> , East Sikkim.	27.40	88.52
3.	1803	River MANEY KHOLA AT BURTUK near Army Base Camp 4 km U/s of Gangtok, East Sikkim	27.35	88.61
4.	1804	River Maney Khola after confluence with Ray khola at ADAMPOOL AFTER MEETING TREATED WASTE WATER of STP, Gangtok, East Sikkim	27.30	88.58
5.	1805	After confluence of Rani Chu and Rorachu at <b>RANIPOOL</b> , East Sikkim	27.29	88.59
6.	1806	Ranichu <b>before</b> confluence with River Teesta at <b>SINGTAM</b> , East Sikkim	27.22	88.49
7.	1807	River Teesta <b>after</b> confluence with River Ranichu at <b>SINGTAM</b> , East Sikkim	27.11	88.45
8.	1808	River Teesta after confluence with Rongpochu after meeting the industrial effluents from the town RANGPO, East Sikkim.	27.17	88.52
9.	1809	River Teesta at Melli Downstream, MELLI, South Sikkim	27.08	88.45
10.	2034	RANGIT RIVER AT DAM SITE (NHPC), South Sikkim	27.29	88.29
11.	2035	RANGIT RIVER AT LEGSHIP, West Sikkim	27.27	88.27
12.	2036	RANGIT RIVER AT RESHI, West Sikkim	27.22	88.30
13.	2037	RANGIT RIVER AT JORETHANG, South Sikkim	27.13	88.27
14.	2038	RANGIT RIVER AT TREVENI, Melli, South Sikkim	27.08	88.41

The quality of water is regularly monitored by SPCB officials and the data so generated is being forwarded to CPCB, Delhi for further analysis. This is a 100 % central sponsored scheme. As per the analysis of data, the quality of water so far has been found to be good. A compilation of water quality data collected over the year is at **Annexure-I**.

In order to maintain the quality of water the SPCB-Sikkim has been continuously monitoring the industrial activities and has been ensuring the running of Effluent Treatment Plant (ETP) 24 hours a day. SPCB-Sikkim has made Zero Liquid Discharge (ZLD) mandatory so that the treated water meeting the prescribed standard is recycled and reused for gardening, flushing, cleaning and cooling purposes. Further, Online Continuous Effluent Monitoring Systems(OCEMS) are set up in all the pharmaceutical units established in the State.

#### C. WATER AND AIR LABORATORY:

The Pollution Control Laboratory located at 'C' Block, Forest Secretariat, Deorali has been specified as the State Water and Air Laboratory vide Gazette no.127 dated 09/09/1996 to carry out the functions entrusted to the State Water Laboratory and the State Air Laboratory under sub-section (1) of section 52 of the Water (Prevention and Control of Pollution) Act 1974 and sub-section (1) of section 28 of the Air (Prevention and Control of Pollution) Act 1981 respectively. It deals with day to day analytical work related to both water and air pollution. Samples of airare collected twice in a week and that of water are collected once a month for analysis. The reports are then compiled and submitted to CPCB through online portals respectively.

In conformity with the Hon'ble High Court of Sikkim's order in the matter of discharge of industrial effluent at Singtam by the Pharma Unit dated 06/08/2018 and 29/11/2018, the Board's Water Laboratory has been upgraded.

Further, as per the direction of Hon'ble High Court of Sikkim, the treated water samples from outlet of Effluent Treatment Plant (ETP) and water sample from storm water drains of Pharmaceutical industrial units were collected fortnightly and analysed in the SPCB Lab. The analysis reports were compiled and submitted to the Hon'ble High Court.

#### **D. NOISE MONITORING:**

Due to increase in developmental activities there has been a rise in noise pollution in the whole country.

SPCB-Sikkim has been measuring noise pollution during the festival of Deepawali. As per the study conducted by SPCB-Sikkim it has been observed that, the noise level has gone down extremely due to ban imposed by the State Government on manufacture, import, sale and bursting of firecrackers and other illuminating items in the state.

SPCB-Sikkim took the initiative of imposing prohibition on manufacture, sale, import and bursting of all types of Firecrackers including sound emitting and illuminating type through Sikkim Gazette Extraordinary Notification no. 544 dated 19/12/2014. While executing the ban imposed by the State Government awareness among the public has been generated through print and electronic media, Street plays, Rallies through School students and appeal from the Hon'ble

Chief Minister and other Celebrities. Further, the Board conducts regular noise pollution monitoring during the festival of Deepawali. Till date, the noise level readings generated are well within the stipulated standards.

#### **E.ESTABLISHMENT OF INDUSTRIAL UNITS:**

Under the provision of Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 no units can be established without the prior consent of the SPCB. Consent to Establish (CTE)/ Consent to Operate (CTO) should be obtained by industrial unit prior to establishment and operation of industrial units.

Industrial units which are of large and medium scale have been granted with Consent to Operate (CTO) under manufacturing sector. Under the service sector consents are being issued to Hotels, Resorts, Health Care Facilities, Garage, Hot mix plant, Wet mix plant, Stone crushers, Sewage Treatment Plant (STP), etc.

Establishment and operation of Diesel Generators(DG set) also require CTE/CTO.

For the issuance of Consent to Establish (CTE)/ Consent to Operate (CTO) inspection of units are carried out by following standard operating procedure.

Renewal of CTO/CTE is done only after inspection of the unit.For strict compliance of standards prescribed in the CTO, the Board is engaged in regular monitoring of industrial activities. Third Party Monitoring by an accredited laboratory has also been made mandatory to all the industrial units as per the ease of doing business policy.

As per the dataof 2019-20 available on Online Consent Management and Monitoring System 314units were granted CTE/ CTO. The list of 314 units are attached at Annexure-II.

SPCB-Sikkim has categorized various industries operating within the state into 04 categories viz., Red, Orange, Green and White as per their pollution potential. CTE and CTO are issued accordingly. This categorization was notified vide no. 112 dated 01/04/2017. The consent fee for each industry is calculated as per the gross fixed capital investment of each unit without depreciation.

#### F. PUBLIC HEARING:

Under the provision of Environment Impact Assessment notification, certain development projects are required to obtain Environment Clearance (EC) from the Central Government for category A Projects and from State Environment Impact Assessment Authority for category B projects. Before grant of EC, the projects are subjected to Public Hearings and SPCB-Sikkim has so far conducted 23 public hearings for different types of developmental projects:

#### G. AWARENESS PROGRAMMES/SENSITISATION/WORKSHOP:

Generation of awareness is one of the key factors for prevention of environment pollution. SPCB-Sikkim has been deeply engaged in creating awareness through different types of programs to educate students, general public on conservation and preservation of environment.

Various programs viz., lectures, essay and painting competition, slogan competition are held among the student community. The celebration of World Environment Day and Paryavaran Mahotsav are the regular features of SPCB-Sikkim. SPCB-Sikkim has produced environment film, environment songs, documentaries and also different environment related advertisement, films and material to educate the general masses.

The Urban Local Bodies (ULBs) and Upadhakshyas are also taken on board to create awareness on the subject. SPCB-Sikkim also organized Sensitization seminars and workshops to the head of Departments and the heads of all industrial units including Hydroelectric project on the different Acts and Rules related to environment protection. SPCB has been assisting different social groups, NGOs and other registered organizations by providing financial support and related tools and kits for keeping their locality neat and clean.

SPCB has taken steps to provide dustbins to ULBs, religious institutions, tourism destinations, schools and colleges etc. for keeping the locality clean.

SPCB has also taken initiative to organize exposure visits for the students to different types of industrial units to encourage them to opt for career in the industrial sector. The Board is also bringing out appeals to generate awareness through advertisement in print and electronic media.

Special visits to the nearby industrial units are being arranged forschool students and local public through the management of the industry and insisting the industries to maintain transparency in control of pollution and in operating their Corporate Social Responsibility (CSR) to gain the goodwill of the public and maintain the environment.

Sensitization program with respect to Solid Waste Management Rules 2016 and other Rules are carried out involving Additional District Collector (Development), Sub-Divisional Magistrates and Block Development Officers. Similar sensitization program on Bio-medical Waste Management Rules 2016 was organized involving Health Care Facilities. The Government Agencies, Industries, Public Sector Undertakings as well as Banks were given sensitization on E-Waste (Management) Rules 2016 by SPCB Sikkim in co-ordination with National Institute of Electronics and Information Technology (NIELIT).

**H.** Public can avail information on SPCB-Sikkim along with regular updates in the website of Forest and Environment Department, Government of Sikkim with link www.sikkimforest.gov.in/spcb.html.

The official email address for correspondence with the board is <a href="mailto:spcbsikkim@gmail.com">spcbsikkim@gmail.com</a>

#### I. Way forward

To strengthen the capacity and functions of SPCB-Sikkim various measures are being taken up currently:

- i) Sensor based River monitoring system.
- ii) Setting up of common server platform to have real time online monitoring data on ambient air quality and river water quality.
- iii) Induction of required technical and scientific manpower under SPCB-Sikkim.
- iv) NABL (National Accreditation Board for Testing and Calibration Laboratories) accreditation of State Water and Air Laboratory under SPCB-Sikkim.

#### SPCB-Sikkim Board Meeting 2019 dated 26-06-2019

A Board meeting of SPCB Sikkim was Chaired by Shri M.L. Srivastava (IFS), Principal Secretary cum PCCF, Forest & Environment Department and interim Chairman SPCB on 26-06-2019at the Sidkeong Tulku Conference Hall, Forest Secretariat. The following issues were discussed and decided.

- 1. Verification of installation of e-flow meter in Hydro Electric Power projects was to be conducted status verified. Installation has been completed in 6 out of the 7 operational HEPs
- 2. Verification of operational status of Sewage Treatment Plants status verified. 7 STPs are operational, 3 nos. are nearing completion and 2 have been proposed.
- 3. Up gradation of State Water and Air Laboratory as per the directions of the High Court of Sikkim in W. P. PIL 12 of 2017 direction complied. Up gradation conducted under NABL lead assessor Dr. S.K.Tyagi.
- 4. Installation of Continuous Ambient Air Quality Monitoring System in Zero Point Gangtok Under process. Approval from Finance Department is being awaited.
- 5. Implementation of Third Party Monitoring (Accredited Environmental Lab and ETP consultants) applications received.
- 6. Online Consent Management and Monitoring System As per the directions of the Government of India to ensure ease of doing business OCMMS portal has been set up by engaging National Information Centre and is fully functional.
- 7. Up gradation of National Air Monitoring Programme stations' laboratories including procurement of PM 2.5 machines approved by the Board. Procurement under process.
- 8. Setting up of a Common Hazardous Waste Treatment storage Disposal Facility site selection has been completed.
- 9. Validity period of Consent As per the Government of Sikkim Gazette notification no. 2592/SPCB dated 01/04/2017 the Board agreed that consent can be granted as per the category of industries, if the unit pays the relevant fees.
- 10. Formation of SLC under the directions of the Hon'ble National Green Tribunal in the matter of compliance of Municipal Solid Waste Management Rules, 2016 O.A. 606/2018 complied and compliance report submitted on quarterly basis.

11. Formation of River Rejuvenation Committee under the directions of the Hon'ble National Green Tribunal in the matter of News item published in "The Hindu" authored by Shri Jacob Koshy Titled "More river stretches are now critically polluted: CPCB" O.A. 673/2018. – complied and compliance report submitted on monthly basis.

#### STATUS OF IMPLEMENTATION OF SOLID WASTE MANAGEMENT RULES 2016

#### A. Introduction

The Ministry of Environment, Forest & Climate Change has notified the Solid Waste Management Rules, 2016 in exercise of the powers conferred by sections 3, 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986) and in supersession of the Municipal Solid Waste (Management and Handling) Rules, 2000, (which covered only Urban Local Body) for the management of Solid Wastes which came into effect on 08.04.2016.

Solid Waste Management Rules, 2016 applyto every urban local body, outgrowths in urban agglomerations, census towns as declared by the Registrar General and Census Commissioner of India, notified areas, notified industrial townships, areas under the control of Indian Railways, airports, airbases, Ports and harbors, defense establishments, special economic zones, State and Central government organizations, places of pilgrimage, religious and historical importance as may be notified by respective State government from time to time and to every domestic, institutional, commercial and any other non-residential solid waste generator situated in these areas.

#### B. Status of Solid Waste generation and disposal in the State:

#### **Waste Generation**

Numbers of ULBs: 07

Total waste generation(TPD): 74.9

Quantity of MSW collected (TPD): 74.4

Quantity of MSW segregated & transported (TPD): 68.4

Quantity of MSW processed (TPD): 61.5

Quantity of MSW disposed in secured land fill site (TPD):9.00

#### **Waste Treatment Capacity.**

Gangtok Municipal Corporation (GMC) has installed a 1 tonne per day (TPD) composting unit at Khangchendzonga vegetable market in Gangtok and 50 TPD composting plant at Martam solid waste processing and landfill site, to convert vegetable waste to compost. The composting capacity in the State therefore exceeds the generation which is estimated to be around 35 TPD.

#### C. Role of Local Bodies In Respect Of Solid Waste Management:

Door to door collection of waste is being currently practiced in most of the ULBs of Sikkim through garbage collection vehicle. The level of household segregation under GMC area is reported to be 100% and the collection of segregated solid wastes with respect to generation is reported to be 80%under Gangtok Municipal Corporation. Under GMC most of the Wards are covered with segregation bins for Wet & Dry waste.

The segregated solid wastes are processed at Martam processing facility. The biodegradable waste is converted to compost and part of the non-biodegradable waste is recycled by recyclers and disposed off mostly outside the State. The inert and some other materials that are non-recyclable are subjected to land fill. Waste cloth from furnishing shops have been converted into different item for sale e.g. handbags, pillow cover, etc. by GMC. The Secretary—in-charge, Urban Development and Rural Development Department in the State hasprepared a state policy on solid waste management in their respective jurisdiction.

At present, only Martam Landfill, East Sikkim is being used for disposal of Solid Waste generated in the East District. South and West districts are utilizing the facility at Sipsu dumping site and Ringdham in Dzongu, has been identified for establishment of sanitary landfill facility for North District. A State Level Advisory Body has been constituted vide notification No. SBM (U)/UD&HD/GOS/16/57/17 dated 14/11/17 with Secretary, UD&HD as its Chairperson, exofficio, to review the matters related to implementation of these rules, state policy and strategy on solid waste management and give advice to state government for taking measures that are necessary for expeditious and appropriate implementation of these rules. The State Level Committee (SLC) with Justice A.P. Subba, former Judge, High Court of Sikkim as its Chairperson has been formed. The duties of the SLC are to monitor and oversee the implementation of Waste Management Rules as per the direction/order passed by the Hon'ble NGT. The SLC has been meeting at regular intervals to ensure implementation of the waste management rules. Team comprising of SPCB and Gangtok Municipal Corporation Officials headed by SLC Chairman carried out inspection of wire netting of various jhorasregularly. The Chairperson, SLC along with Secretaries of various Departments conducted field visit to various pharmaceutical units in order to ensure compliance of various waste rules in industrial sector on 08.01.2020. Special Task Force (STF) has been constituted in the state for monitoring of compliance of Solid Waste Management Rules, 2016 as per the direction of Hon'ble NGT Order dated: 16.1.2019 in OA No. 606 of 2018.

#### D. Role of State Pollution Control Board-Sikkim In Respect Of Solid Waste Management:

- 1. Awareness programmes are regularly conducted by the Board.
- SPCB has conducted sensitization program on Solid Waste Management Rules, 2016 for the Block Development Officers and ADCs of all the four districts on 04-08-2018.
- 3. Resource persons from SPCB in coordination with RDD have conducted orientation and training program on Solid Waste Management Rules, 2016 for Gram Panchayats of all the four districts.
- 4. SPCB has been granting Rs. 2.0 Lakhs annually to Zilla Upadhakshya of all the four districts for conducting awareness program on waste management in their respective jurisdictions.

- 5. Cleanliness drives are regularly carried out by various Departments and Institutions in the State. SPCB has distributed garbage bins to educational institutions, religious places, tourist spots and other organizations for waste collection at public places.
- 6. Regular meeting with the stakeholders for implementation of the Rules.
- 7. Facilitated to prepare Solid Waste Management policy.
- 8. Facilitated to prepare Solid Waste Management Bye laws.

#### E. Legal framework.

#### 1. State SWM policy and strategy:

The State solid waste management policy and strategy were notified by the Urban Development Department vide Gazette notification of Government of Sikkim No. 183 dated 29.04.2019. It emphasizes waste reduction, at source segregation, decentralized solid waste management, resource recovery, processing of biodegradable waste through bio-methanation, compositing and of non-biodegradable waste through recycling and landfill.

#### 2. Bye-laws:

Bye-laws for regulation of solid waste were notified by the Urban Development Department on 29/04/2019 vide Government notification no.5/UD&HD and published in Extraordinary Gazette vide No. 185 dated 29/04/2019. These bye-laws provide for regulatory action of Government & municipal authorities as well as penal provision for various acts like littering.

#### STATUS OF IMPLEMENTATION OF PLASTIC WASTE MANAGEMENT RULES, 2016

#### A. Introduction

The Plastic Waste (Management and Handling) Rules, 2011 published vide notification number S.O 249 (E), dated 4th February, 2011 by the Government of India in the erstwhile Ministry of Environment and Forests, as amended from time to time, provided a regulatory frame work for management of plastic waste generated in the country. Subsequently the Central Government reviewed these rules in order to implement these rules more effectively and to give thrust on plastic waste minimization, source segregation, recycling, involving waste pickers, recyclers and waste processors in collection of plastic waste fraction either from households or any other source of its generation or intermediate material recovery facility and adopt polluter pays principle for the sustainability of the waste management system. This led to the notification of the plastic waste rules of 2016 (amended).

#### B. Status of plastic waste management in the State.

Sikkim has 7 urban local bodies which are as follows.

- 1. Gangtok Municipal Cooperation
- 2. Singtam Nagar Panchayat
- 3. Rangpo Nagar Panchayat
- 4. Naya Bazar- Jorethang Municipal Council
- 5. Gyalsing Municipal Council
- 6. Namchi Municipal Council
- 7. Mangan Nagar Panchayat

These urban local bodiesplay an important role in collection and segregation by involving waste pickers, packet collectors and scrap vendors.

#### The State Government Sikkim has taken the following initiatives.

- The Govt. of Sikkim vide notification number 25/Home/2016 dated 19.05.2016 directed that the packaged drinking water bottles may not be used in any Govt. meetings/functions in order to reduce plastic waste.
- The Govt. of Sikkim vide notification number 26/Home/2016 dated 19.05.2016 announced the ban on sale and use of disposable items made from Styrofoam throughout the State keeping in view its various ill effects to environment and human health. Trade license Rule 2011 states that no one should use plastic wrappingfor goods being sold in the market.
- Banned the burning of agriculture wastes, garbage, leaf litters etc.

- The State Government for the effective implementation and monitoring of these rules has constituted a State Level Advisory Committee on 14.11.2017 vide notification no. SBM (U/UD&HD/GOS/1/6/57/18). After constitution of the committee by the state government dated 14/11/2017, Gazette notification vide No. 551dated 15/11/17 under the provision of the PWM Rules 2016 was brought out. SLAC held its first meeting on 20<sup>th</sup> March 2018.
- Under the direction of the Hon'ble National Green Tribunal (NGT) passed on 1<sup>st</sup> May 2019, the following gram Panchayat units (GPUs) under Rural Management Development Department are hereby notified as model village/ GPUs

The model Gram Panchayats Units are:

Sl.no	District	Block	Gram Panchayat units
1	Gangtok East	Martam	Samlik Marchak
2	Gangtok East	Martam	Martam Nazitam
3	Pakyong East	Reghu	LingtamPhadamchen
4	Pakyong East	Pakyong	AhoYangtam
5	Chungthang North	Chungthang	Chungthang
6	Chungthang North	Chungthang	Shipgyer
7	Mangan North	Mangan	RinghimNampatam
8	Mangan North	KabiTingda	NaveyShotak
9	Gyalshing West	Dentam	Dentam
10	Gyalshing West	Gyalshing	DarapNambu
11	Soreng West	Mangalbarey	SuldungKamling
12	Soreng West	Soreng	Buriakhop
13	Namchi South	Namthang	ChubaPhong
14	Namchi South	Sumbuk	MellidaraPaiyong
15	Ravangla South	Sikkip	Wok Omchu
16	Ravangla South	Yangang	YangangRangang

#### C. Role of SPCB-Sikkim in Plastic Waste management

Annual Report on Plastic Waste Management Rules, 2016 is submitted to SPCB-Sikkim by Urban Development Department, Government of Sikkim from 07 Urban Local Bodies which is then compiled and forwarded to Central Pollution Control Board, New Delhi by the Board.

a. The report is uploaded on CPCB web portal E-Sanyojan annually.

- b. No producer, recyclers and manufacturing units are there in the state of Sikkim.
- c. Annual Report for the year 2018-19 has been uploaded on E-Sanyojan and the total plastic waste collected is **5.66** tons /annum.
- d. Awareness programmes are being regularly conducted by the Board. SPCB conducted sensitisation programme on Plastic Waste Management Rules, 2016 for the Block Development Officers and ADCs on 04/08/2018.
- e. Resource person from SPCB in co ordination with RMDD conducted orientation andtraining programme on Plastic Waste Management rules, 2016 on 06/07/2019.

### TALLY OF THE QUANTITY OF PLASTIC WASTE GENERATED BY 07 URBAN LOCAL BODIES OF SIKKIM FOR THE YEAR 2018-2019 AS REPORTED IN THEIR ANNUAL REPORT SUBMITTED TO SPCB-SIKKIM\*

Sl. No	Name of ULB	Population	Plastic waste generated (TPA) 2018-2019	Plastic waste collected (TPA) 2018-2019	Plastic waste Channelized /Recycled(TPA)2 018-2019
1.	Gangtok Municipal corporation (GMC)	100280	NA	NA	NA
2.	Gyalshing Municipal Council (GyMC)	6185	0.8	0.6	NA

3.	Mangan	7000	0.1	0.1	NA
	Nagar				
	Panchayat				
	(MNP)				
4.	Namchi	13538	4.5	4.5	NA
	Municipal				
	Council				
	(NMC)				
	, ,				

5.	Rangpo Nagar Panchayat (RNP)	16500	NA	NA	NA
6.	Singtam Nagar Panchayat (SNP)	7579	0.06	NA	0.0167
7.	Jorethang Municipal Council (JMC)	16580	0.2	0.2	NA
	Total	1,67,662	5.66	5.4	0.0167

<sup>\*</sup>As reported by UDD, Government of Sikkim.

#### Status of Implementation of Bio-Medical waste Management Rules, 2016

#### A. Introduction

The Bio-medical Waste Management Rules 2016 was notified on 28<sup>th</sup> March, 2016 by the Ministry of Environment and Forest, Government of India, in supersession of the earlier rules, the Bio-medical Waste (Management and Handling) Rules, 1998 to provide the regulatory frame work for management of bio-medical wastes (BMW) generated in the country.

Bio-medical Waste Management Rules 2016 definesbio-medical waste as any waste, which is generated during the diagnosis, treatment or immunization of human beings or animals or research activities pertaining thereto or in the production or testing of biological or in health camps, including the categories mentioned in Schedule I of BMW Management Rules, 2016.

Bio-medical Waste is categorized into four types of wastes viz. Yellow, Red, Blue and White category and they have different disposal methods e.g. incineration or deep burial pit including further recycling through authorized recycler.

#### **B.** Status of Health Care Facilities in the State

- i. There are a total of 178 nos. of Health Care Facilities (HCF) under Health and Family Welfare Department, which includesone 1000 bedded New STNM Hospital, four (04) district Hospitals, 02 nos. of CHCs, 24 nos. of PHCs and 147 nos. of PHSC which are located in rural areas.
- ii. Under private sector there are three (03) hospitals viz.
  - a. 550 bedded CRH, Manipal, Gangtok,
  - b. 25 bedded NHPC Hospital, Balutar, Singtam
  - c. 10 bedded NHPC Hospital, Rangit.

In addition few numbers of Private diagnostic centers and Clinics are operating in the state.

The Animal Husbandry and Veterinary Services have 22 nos. of Veterinary Institutions in the state.

#### C. Role of State Pollution Control Board (SPCB)

- i. As per the BMW Management Rules, 2016 the State Pollution Control Board is the Prescribed Authority for implementation of the provisions of these rules. Further, the SPCB also regulates Health Care Facilities under consent management regime as such units also require to obtain Consent as stipulated under the Acts i.e. the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act 1981.
- ii. The Board grants one time Authorization to non-bedded Health Care Facilities.

The SPCB-Sikkim has launched online portal for processing of application for Consent and all HCFs are required to apply for consent under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 through the portal viz. <a href="http://www.skocmms.nic.in">http://www.skocmms.nic.in</a>.

At present, all the applicants are required to submit form-II to SPCB-Sikkim for Authorization under the BMW Management Rules, 2016, which may be downloaded from sikenvis.nic.in.However, the Online Consent Management Monitoring System is being finalized in coordination with NIC Delhi, to extend the online facility for inclusion of online processing facility for granting of Authorization. The HCFs are required to pay Consent Fee as prescribed in the statutes which ischarged on the total capital investment of Health Care Facilities. However, no fee is applicable for granting of Authorization as per the rule.

- iii. The SPCB-Sikkim compiles annual report received from HCFs in the state and consolidated reports along with theinventory of HCFs dealing in BMW managementis submitted to CPCB before 31<sup>st</sup> July of every year and the same is also uploaded in e-sanyojan portal of the Central Pollution Control Board.As per the Annual Report received from Health Care Facilitiesthe quantity of BMW generation is approximately **482.65 kg/d**ay (2019-2020).
- iv. Awareness programs have been conducted under BMW Management Rules, 2016 for:
  - HODs of all the departments, District Collectors and BDOs were given presentation on the provisions of the Rules at Sidkyong Tulku Conference Hall, Forest and Environment Department, Government of Sikkim in the year 2018.
  - All the Veterinary Officers were provided one day training at Conference hall of Krishi Bhawan, Tadong, Gangtok in the year 2018 and
  - A workshop was organized for the occupiers of all the Health Care Facilities both Govt. and Private sector for four days i.e. from 1<sup>st</sup> to 4<sup>th</sup> July 2019 at Sidkeong Tulku Conference Hall, Forest Environment & Wildlife Management Department.

#### D. Committee Constituted under the Bio-Medical Waste Management Rules

Under rule 11 (1) every state government or union territory administration shall constitute an advisory committee for the respective state or union territory under the chairmanship of the respective Secretary, Health to oversee the implementation of the rules. The Advisory committee has been formed in Sikkim vide notification no. 49/HC,HS&FW dated 26.09.2016. (Annexure-III)

Under rule 12 (4) every State Government or Union Territory Administration shall constitute District Level Monitoring Committees in the districts under the chairmanship of District Collector or District Magistrate or Deputy Commissioner or Additional District Magistrate to monitor the compliance of the provisions of these rules in the health care facilities generating bio-medical waste: The district level monitoring committee in the districts has been formed vide notification no. 101/HC,HS&FW dated 25.09.2018. (Annexure-IV)

#### E. Bio-medical waste treatment and disposal

As the State of Sikkim does not have Common Bio-Medical Waste Treatment Facility (CBMWTF) major hospitals are allowed to install captive Bio-Medical Waste treatment facility i.e. incinerator, autoclave, shredder, microwave etc. Hence, all the major HCFs of Sikkim are equipped with captive treatment facility. Also disposal by deep burial pit is permitted only in rural or remote areas where there is no access to CBMWTF. In compliance to Bio-Medical Waste (BMW) Management Rules the HCFs in Sikkim have installed their own Bio-medical Waste treatment equipments accordingly.

The Health and Family Welfare Department have three (03) ETP plants constructed in the New STNM Hospital and one (01) ETP plant established at CRH Manipal, 5<sup>th</sup> Mile, Tadong, East Sikkim for treatment of liquid waste. District Hospitals and smaller bedded hospital under Department of Health & Family Welfare are yet to install ETP. However, the provision for installation of ETP is included in the Action Plan prepared by the Department and the liquid wastes generated by the district hospitals discharged through drains connected to hospital soak pit after treatment.

State Pollution Control Board has issued Authorization to Scrap/ Waste collector for collection of red and blue categories of Bio-medical Waste for transporting it outside the state for recycling purposes.

#### Status of Implementation of the E-Waste Management Rules, 2016

#### A. Introduction

E-waste means electrical and electronic equipment, whole or in part discarded as waste by the consumer or bulk consumer as well as rejects from manufacturing, refurbishment and repair processes

In exercise of the powers conferred by sections 6, 8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), and in supersession of the E-waste (Management and Handling) Rules, 2011, the E-waste Management Rules, 2016 (amended) came into force on 23rd March , 2016. The rules shall apply to every manufacturer, producer, consumer, bulk consumer, collection centres, dealers, e-retailer, refurbisher, dismantler and recycler involved in manufacture, sale, transfer, purchase, collection, storage and processing of e-waste or electrical and electronic equipment.

#### B. Role of State Pollution Control Board (SPCB)

- i. Inventorization of e-waste.
- ii. Compilation of annual returns and submission of annual report to Central Pollution Control Board and as well upload in e-sanyojan portal of the CPCB.
- iii. A regular correspondence is carried out with the concerned line departments regarding the implementation of the newly revised rules

#### C. Status of E-waste in Sikkim:

- i. The state has no producer, e-retailer of electronic equipments and re-furbisher, dismantler and recycler of the e-wastes.
- ii. The Gangtok Municipal Corporation and Gyalshing Municipal Council were previously granted Authorization for establishment of e-waste collection centre at Gangtok, East Sikkim and Gyalshing, West Sikkim respectively under the Provision of Sub rue 3 of rule 9 (3) of the E-Waste (Management and Handling) Rules 2011. As per the newly revised rules i.e. E-Waste (Management) Rules, 2016, the collection centers does not require Authorization for collection of E-Waste

#### D. Awareness programme:

- i. A public notice was published in the daily newspaper stating about the newly revised rules and its application to various stakeholders.
- ii. E-Waste Management and Disposal training for industrial units and Government Departments were conducted by National Institute of Electronics & IT Department (NIELIT), Gangtok training arm of the Ministry of Electronics and IT (MeitY) in collaboration with the State Pollution Control Board -Sikkim.

#### E. Disposal of e-waste

J.S Pigments Pvt. Ltd. of Kolkata, West Bengal has recently been authorized for collection, transportation and recycling of E-Waste from the State of Sikkim.

#### Status of Implementation of Hazardous and Other waste (Management, Handling & Transboundary Movement) Rules, 2016

#### A. Introduction:

Hazardous waste means any waste which by reason of characteristics such as physical, chemical, biological, reactive, toxic, flammable, explosive or corrosive causes danger or is likely to cause danger to health or environment, whether alone or in contact with other wastes or substances.

In exercise of the powers conferred by sections 6, 8 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), and in supersession of the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008, the Hazardous and Other waste (Management, Handling & Transboundary Movement) Rules, 2016 came into force on the 04th April, 2016.

#### **B.** Duties/Responsibilities of State Pollution Control Board:

- a) Inventorisation of hazardous and other wastes and submission of annual reports;
- b) Grant and renewal of authorization;
- c) Monitoring of compliance of various provisions and conditions of permission including conditions of permission issued by Ministry of Environment, Forest and Climate Change for exports and imports;
- d) Examining the applications for imports submitted by the importers and forwarding the same to Ministry of Environment, Forest and Climate Change;
- e) Implementation of programmes to prevent or reduce or minimize the generation of hazardous and other wastes:
- f) Action against violations of these rules;
- g) Any other function under these Rules assigned by Ministry of Environment, Forest and Climate Change from time to time.

#### C. Hazardous waste (HW) generation:

The state of Sikkim currently has 51 nos. of HW generating units. The categories of hazardous waste generated in the state are namely:

- a) ETP Sludge
- b) Process waste
- c) Cleaning Residue
- d) Contaminated waste
- e) Spent Solvent
- f) Off Specification Products
- g) Evaporation residue

- h) Date expired products
- i) Filter Medium
- j) Used/Spent Oil

As per the annual report for the year 2018-19 the quantity of HW generated is **1467.21 MT**.

#### **D. Hazardous Waste Disposal:**

The SPCB-Sikkim has signed a tripartite agreement with West Bengal Pollution Control and West Bengal Waste Management Limited for collection, transportation and disposal of incinerable Hazardous waste till date. The agreement was renewed on 17/02/2020 for a period of 2 years for a quantity of 2000MT per year.

The recyclable waste oil generated in state of Sikkim is transported to M.K. Industries in Haryana.

#### E. Authorization for handling hazardous waste:

As per the provisions of the Hazardous and Other waste (Management, Handling & Transboundary Movement) Rules, 2016 it is mandatory for all industrial units generating hazardous waste or involved in handling HW to obtain Authorization from SPCB/PCCs. As per the Directives of the MoEF&CC, Central Pollution Control Board and Hon'ble National Green Tribunal, the SPCB-Sikkim grants authorization to such industrial units after inspection and verifying the guidelines for safety precautions for handling hazardous wastes are complied with.

#### F. Setting up of Common Hazardous Waste Treatment Storage Disposal Facility (CHWTSDF):

As per the directions of the Hon'ble NGT in the matter of O.A. 804 of 2017 Rajiv Narayan &Anr Vs. Union of India & Ors, all states were directed to set up CHWTSDF for disposal of HW. The SPCB-Sikkim in co-ordination with the Department of Industries & Commerce, Govt. of Sikkim have completed site selection and acquisition of the same is under process.

#### **G.** Contaminated Sites:

The SPCB-Sikkim has not received any complaint/information or observedany hazardous waste contaminated sites in the state during the inspections. Till date no accidents have also been reported during transportation of hazardous waste.

#### Annual Report of National Ambient Air Monitoring Programme for the Period 2019-2020.

#### A. Introduction

Air Pollution is a major problem that has been recognised throughout the world for hundreds of years and India being a developing economy is also struggling to curb the air pollution which is affecting millions of lives. There are many factors that influence the way pollution is spread, including wind and atmospheric stability, as well as the local terrain. Industrialization and Urbanization have resulted in a profound deterioration of air quality. In order to take stock of the ambient air quality in the Countryand carry out timely intervention by framing of necessary policy for remedial measures, the Central Pollution Control Board (CPCB) under the Ministry of Forest, Environment and Climate Change, Govt. Of India has started a Nationwide Programme known as National Ambient Air Quality Monitoring (NAAQM) which is presently called National Air Monitoring Programme (NAMP). There are a total of 573 operating NAMP stations in the country.

#### B. The objectives of air quality monitoring programmes

The fundamental objective of air quality monitoring is to collect data that can be used to make informed decisions to best manage and improve the environment. In order to make informed policy, decision and checking out well defined strategy for mitigating, quality regular monitoring is highly essential.

#### **Ambient Air Quality Monitoring Programme:**

In Sikkim, 09 stations have been established under the NAMP and out of which 08 stations are currently functional. One of the stations located at Tashi View Point, Gangtok was removed after the site was damaged by minor landslide. A network with 08 ambient air quality monitoring station covering all districts has been put in place in the State of Sikkim to assess the air quality. Based on the monitoring results and trends, the Authority will be able to prepare strategy and implement the same well in time to take preventive measures to control air pollution from different sources.

National Air Monitoring Programme (NAMP) in the state is being operated undercomplete financial assistance of Central Pollution Control Board (CPCB). Monitoring is carried out in 104 days and on 24 hours basis in a year as per the frequency stipulated by CPCB guidelines. The data obtained from these stations is being submitted to CPCB through online portal. SPCB-Sikkim is monitoring criteria pollutants only in 08stations viz. Respirable Suspended Particulate Matter (PM10), Sulphur Dioxide (SO<sub>2</sub>), and Oxides of Nitrogen (NO<sub>2</sub>).Out of sanctioned 21 posts, the stations are presently being manned by 16 scientific personnel only.

TABLE 1. Stationwise Ambient Air Quality Monitoring Data (Annual Average) for the Year 2019-2020

Sl.	STATION	LATI	TUDE/	STATION	TYPE	RSPM	SO2	NO2
No.	CODE	LON	GITUDE	NAME		(PM10)		
01.	521	i.	27.3183	Gangtok	Residential	46.41	5.17	8.04
		ii.	88.6063					
02.	896	i.	27.1736	Rangpo	Residential	56.28	7.43	7.99
		ii.	88.5305					
03.	897	i.	27.5144	Singtam	Residential	50.79	6.18	6.33
		ii.	88.4969					
04.	898	i.	27.3028	Pelling	Residential	22.75	4.27	3.38
		ii.	88.2344					
05.	899	i.	27.3075	Ravangla	Residential	24.39	4.13	3.80
		ii.	88.363					
06.	900	i.	27.17	Namchi	Residential	31.26	5.25	4.6
		ii.	88.35					
07.	901	i.	27.6033	Chungthang	Residential	24.68	4.88	1.70
		ii.	88.6469					
08.	902	i.	27.5025	Mangan	Residential	29.84	4.18	4.59
		ii.	88.5358					

Note: All values are expressed in  $\mu g/m^3$ .

(This data is based on the monitoring carried out at the 08 NAMP Stations for the year 2019-20). National Ambient Air Quality Standards at **ANNEXURE-V** 

#### C. The Graphical Representation of Ambient Air QualityMonitoring (NAMP) Data

#### $_{i.}$ Monitoring of $PM_{10}$

PM stands for particulate matter,  $PM_{10}$  are minute particles present in the air.  $PM_{10}$  can originate from a variety of sources both indoor and outdoor. The main sources of  $PM_{10}$  includes dust from construction sites, landfills and agriculture, wildfires and bush/wastes burning, industrial sources, windblown dust from open lands, pollen and fragments of bacteria. $PM_{10}$  pollution contributes to acid rain and climate change.

 $PM_{10}$  trend during the period April 2019- March 2020 is depicted in **Fig-1** and the findings were as follows:

As per the findings of the Ambient Air Quality monitoring under NAMP value of PM10 of all Stations are within the national annual average standard of  $60\mu g/m^3$ . As Gangtok being the

capital and Rangpo is the main corridor from which all traffic originates, lots of variation observed at these two Stations whereas other stations does not show that much variation.

During this season the monthly average for  $PM_{10}$  at Rangpo shows maximum concentration value of  $71\mu g/m^3$  in the month of February and Pelling shows minimum concentration value of  $10\mu g/m^3$  in the month of April.

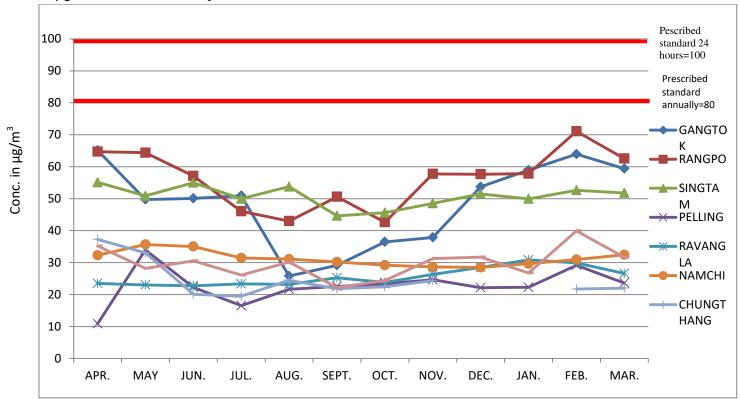


Figure 1: Monthly average values of PM10 for the year 2019-20.

#### ii. MONITORING OF SO<sub>2</sub>

Sulphur dioxide a heavy pungent toxic gas which is easily condensed to a colourless liquid with a strong odour. Sulphur dioxide is a gas released by both human and natural source. The main sources of Sulphur dioxideemissions are from fossil fuel combustion and natural volcanic activity.

High concentration of SO<sub>2</sub> can cause inflammation and irritation of the respiratory system.

SO<sub>2</sub> trend during the period April2019- March 2020 isshown in Figure 2 and following Observations were made:

As per the findings of the Ambient Air Quality monitoring under NAMP, value of  $SO_2$  are well within the 24hourly average standardi.e  $80 \mu g/m^3$  and also within the annual average standard of  $50 \mu g/m^3$ . The value of  $SO_2$  in Rangpo station was higher than the other stations as the station is situated along the National highway and it also happens to be the main entry point

to Sikkim. There are many industries situated in Rangpo and also the area witnesses high numbers of vehicular movement and emission from such vehicles are major contributor of the pollutants.

The level of SO2 remained between  $2\mu g/m^3$  to  $10\mu g/m^3$  throughout the year without much significant variations. However, during the month of October, the values reduced to some extent which may be related to Dusshera holidays as the vehicular movement gets reduced to a large extent during the festival season. Thereafter, during the month of November, few stations such as Rangpo, Singtam and Gangtok recorded slight increase in the values of SO<sub>2</sub>.

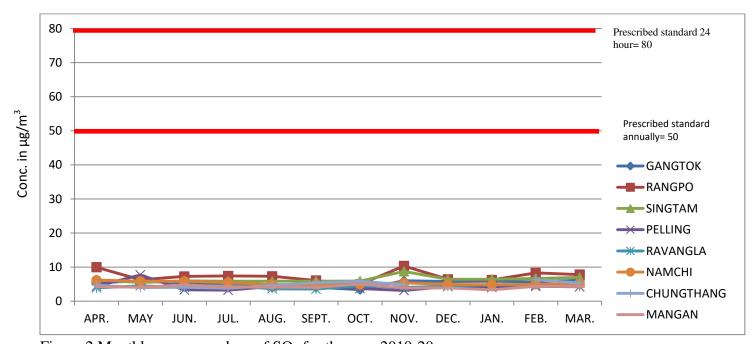


Figure 2.Monthly average values of SO<sub>2</sub> for the year 2019-20.

#### iii. MONITORING OF NO<sub>2</sub>

Nitrogen dioxide is a chemical compound and one of the highly reactive gas.  $NO_2$  is an intermediate in the industrial synthesis of nitric acid, millions of tons which are produced each year for use primarily in the production of fertilizers. In humans higher concentration of  $NO_2$  can cause severe breathing problems in the respiratory system.

 $NO_2$  trend during April2019- March2020 is shown in Figure 3. As per the findings of the Ambient Air Quality monitoring under NAMP, value of  $NO_2$  are well within the 24hourly standard of  $80\mu g/m^3$  and similarly, the values were within the national annual average standard of  $40\mu g/m^3$ . In case of Gangtok, the level of  $NO_2$ were slightly higher than rest of the stations, it may be due to the fact that Gangtok being the capital has highest population and vehicular density in the State and also one of the most prominent tourist hub. Hotels and allied businesses

are lately mushrooming in the city in an unprecedented rate coupled with tremendous increase in floating population due to various developmental activities. Although no industrial units are located in the Gangtok town. The level of NO<sub>2</sub> are same as compared to other areas surrounded by industrial belts such as Rangpo and Singtam.

Gangtok station recorded maximum monthly average value of  $16.73\mu g/m^3$  in the month of October and the lowest average value of  $1.2\mu g/m^3$  was recorded at Chungthang Station in the month of May. With the onset of winter season, the values of NO2 rose significantly in Gangtok town starting from the month of November and the values remained relatively high till the month of March.

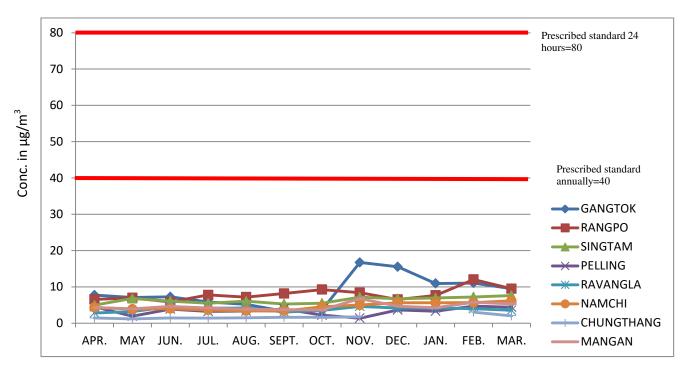


Figure 3. Monthly average values of NO<sub>2</sub> for the year 2019-20.

#### D. Air QualityIndex

- a. Air Quality Index is a tool for effective communication of air quality status to people in terms, which are easy to understand. It transforms complex air quality data of various pollutants into a single number (Index Value), nomenclature and colour.
- b. There are Six AQI categories, namely Good, Satisfactory, Moderately Polluted, Poor, Very Poor and Severe. Each of these categories is decided based on ambient concentration values of air pollutants and their likely health impacts (Known as health break points).

- c. AQ sub –index and health break points are evolved for eight pollutants (PM 10, PM 2.5, NO2, SO2, Co, O3, NH3, and Pb) for which short-term (Up to24 hours) National ambient air quality standards are prescribed.
- d. However, minimum three criteria pollutants are required for calculating the AQI as per the guideline. In case of our State only three criteria pollutants are being monitored and the same are used for calculating the Air Quality Index.

Table 2: Legend for reading AQI

AQI	0-50	51-100	101-200	201-300	301-400	401-500
Remarks	Good	Satisfactory	Moderate	Poor	Very Poor	Severe

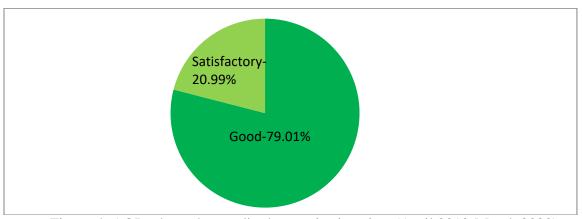


Figure 4. AQI values observed in the monitoring sites (April 2019-March 2020)

#### **E.Overall Summary of AQI**

- i. The air quality monitoring was done across 8 stations in different districts of the state in the year 2019-2020 in which a total of 767 values are taken.
- ii. AQIs in all stations are within Good and Satisfactory range which goes to show that the air quality in the state is much better than the rest of the States in India.
- iii. About 79.01% (606 observations) falls in the GoodCategory as shown in Figure 4.. Similarly, 20.99 % (161 observations) are in the Satisfactory category.



Air Lab at Gangtok Head Office



Air Lab at Bagheykhola



Air Lab at Namchi



Air Lab at Pelling



Air Lab at Bagheykhola



Monitoring Site at Gangtok



Monitoring site at Singtam



Monitoring Site at Chungthang





Monitoring Site at Mangan

Monitoring Site at Rangpo





Monitoring Site at Gangtok

Monitoring Site at Pelling

### F. CONCLUSION

TheAir quality monitoring is being done to control, monitor and rectify the damage done by the pollutants i.e. SO<sub>2</sub>, NO<sub>2</sub> and PM10. Air quality monitoring is important to shut over pollutants so that we can maintain the goodenvironment in the future generations.

During 2019-2020, the Ambient Air quality Monitoring was done under NAMP and it was found that all the values of PM10,  $SO_2$  &  $NO_2$  in 08 stations were within the national annual average standard of  $60\mu g/m^3$ ,  $50\mu g/m^3$  &  $40\mu g/m^3$  respectively.

Reducing pollutants in the air is important for human health and the environment. Poor air quality has harmful effects on human health particularly the respiratory and cardiovascular systems.

#### Chapter-11

### NATIONAL WATER MONITORING PROGRAMME (NWMP)

#### I. Introduction:

Water is the fundamental basis of life. Water pollution as a whole not only has immediate affliction on health of living beings, financial burden on administration for mitigation and agricultural, industrial & domestic utilization but also has future repercussions. Eutrophic water bodies render water useless for domestic use, agriculture, drinking or pisciculture. Biomagnification causes major health issues in higher/apex levels of the food chain. Therefore continuous monitoring of water bodies is highly imperative in order to lead a healthy way of life.

The Government of India enacted the Water (Prevention and Control of Pollution) Act 1974 to maintain wholesomeness of aquatic resources. The act prescribes various functions for the Central Pollution Control Board (CPCB) at the apex level and State Pollution Control Boards at the state level. Under this Act the SPCB-Sikkim has the following duties and functions:

- 1) To plan a comprehensive programme for prevention, control and abatement of water pollution and to secure the execution thereof
- 2) To advise the State Government on any matter concerning prevention, control and abatement of water pollution.
- 3) To collect and disseminate information related to water pollution.
- 4) To collaborate with Central Pollution Control Board in programme related to prevention, control and abatement of water pollution.
- 5) To inspect air pollution control areas, assess quality of water and to take steps for prevention, control and abatement of water pollution in such areas.
- 6) To perform the above functions, CPCB needs continuous monitoring of water quality of aquatic resources in the country. CPCB has established a network of water quality monitoring to fulfill the following objectives:
  - a) Rational planning of pollution control strategies and their prioritization;
  - b) To assess nature and extent of pollution control needed in different water bodies or their part;
  - c) To evaluate effectiveness of pollution control measures already in existence;
  - d) To evaluate water quality trend over a period of time;
  - e) To assess assimilative capacity of a water body thereby reducing cost on pollution control;
  - f) To understand the environmental fate of different pollutants.

g) To assess the fitness of water for different uses.

### **II. Objectives of Nation Water Monitoring Programme:**

The Central Pollution Control Board (CPCB) in collaboration with State Pollution Control Boards (SPCBs) in the States and Pollution Control Committees (PCCs) in Union Territories has established a National Water Quality Monitoring Network (NWMP) in order to assess status of water quality and to facilitate for prevention and control of pollution in water bodies. Present water quality monitoring network under NWMP comprises 4111 stations on surface and groundwater in 28 States and 8 Union Territories. Monitoring is carried out with a frequency on monthly, quarterly, half yearly and yearly basis. Under this programme 14 Water Monitoring Stations have been set up in the state of Sikkim. A State Water Laboratory for the purpose of the NWMP has been setup in Gangtok, Sikkim. Water Quality Monitoring and Analysis is conducted by 7 scientific personnel trained by Regional Director and Scientist D of Central Pollution Control Board, Regional Directorate, Shillong on a monthly basis and data is submitted to CPCB via Environmental Water Quality Data Entry System (EWQDES). The 14 water monitoring stations are stated below:

Table1: List of surface water monitoring station in the state of Sikkim

Sl.	Name of the Station	Station code	Latitude °N	Longtitude °E
No.				
1.	Chungthang	1801	27.60	88.64
2.	Dikchu	1802	27.40	88.52
3.	Burtuk	1803	27.35	88.61
4.	Adampool	1804	27.30	88.58
5.	Ranipool	1805	27.29	88.59
6.	Singtam - Ranichu	1806	27.22	88.49
7.	Singtam - Teesta	1807	27.11	88.45
8.	Rangpo	1808	27.17	88.52
9.	Melli	1809	27.08	88.45
10.	Rangeet river at NHPC dam Site	2034	27.29	88.29
11.	Rangeet river at Legship	2035	27.27	88.27
12.	Rangeet river at Reshi	2036	27.22	88.30
13.	Rangeet river at Jorethang	2037	27.13	88.27
14.	Rangeet river at Triveni	2038	27.08	88.41

#### III. Parameters:

Water samples are analyzed for 9 core, 19 general parameters, 9 trace metals and set of pesticides as per the Guidelines on Water Quality Monitoring, 2017 issued by Ministry of Environment, Forest and Climate Change (MoEF&CC). Analyzed water quality parameters are compared with the designated best use water quality criteria recommended by CPCB or primary water quality criteria for outdoor bathing notified under Environment (Protection) Rules, 1986 or

BIS Drinking Water Specifications i.e. IS:10500-2012 or water quality standards for coastal water depending on the use of water bodies. As per the Guidelines on Water Quality Monitoring, 2017 the following parameters are analyzed in the SPCB-Sikkim Laboratory:

#### A. Pre – monsoon:

- a) General Colour, Odour, Temperature, pH, Conductivity, Dissolved Oxygen, Total Dissolved Solids, Turbidity.
- b) Nutrients Ammonical Nitrogen (NH<sub>4</sub>-N), Nitrite & Nitrate Nitrogen (NO<sub>2</sub> + NO<sub>3</sub>), Total Phosphate (P)
- c) Demand Parameters Biochemical Oxygen Demand (BOD) & Chemical Oxygen Demand (COD)
- d) Major Ions Sodium(NA<sup>+</sup>), Potassium(K<sup>+</sup>), Calcium (Ca<sup>++</sup>), Magnesium (Mg<sup>++</sup>) Carbonate (CO<sub>3</sub><sup>-</sup>), Bicarbonate(HCO<sub>3</sub>), Chloride (Cl<sup>-</sup>), Sulphate (SO<sub>4</sub><sup>--</sup>)
- e) Other inorganic Fluoride (F), Boron (B) and any other location specific parameter
- f) Microbiological Total Coliform & Fecal Coliform

#### B. Rest of the year

Parameters - Colour, Odour, Temperature, pH, Dissolved Oxygen, Total Dissolved Solids, NO<sub>2</sub>, NO<sub>3</sub>, BOD, Total Coliform & Fecal Coliform.

#### DIRECTIONS GIVEN FOR CLOSURE OF POLLUTING INDUSTRIES:

The State Pollution Control Board has been empowered by the Ministry of Environment, Forests & Climate Change, Govt. of India vide Notification No. S.O. 152 (E) of 10/02/1988 to issue directions. The Ministry of Environment, Forests & Climate Change has delegated its powers vested under Section 5 of the EPA,1986 to the State Pollution Control Board – Sikkim to issue directions to any industry or any local body or any other authority for violations of the standards and rules notified under the EPA,1986 and amendment thereof.

The State Pollution Control Board-Sikkim has been assigned with the task of granting Consent to Establish/Operate to industrial units under the under Section 25 of the Water (Prevention & Control of Pollution) Act,1974 & Section 21 of the Air (Prevention & Control Pollution) Act, 1981. The grant of consent entails that the industrial units are to be inspected prior to issue of consent. In addition to the inspection for the above mentioned purpose, the SPCB is also to inspect industrial units in the frequency stated below:

Sl. No.	Industrial category	Frequency of Mandatory
		inspection
1.	17 Category	3 months
2.	Red	6 months
3.	Orange	1 year
4.	Green	2 years
5.	CBWTF/CHWTSDF/CMSWTDF/CETP/STP	3 months

The SPCB-Sikkim also conducts routine sampling of effluent and storm water from pharmaceutical industries.

Any violations of the provisions under the Act under which the consent has been granted or non compliance to the prescribed parameters for Air and Water pollution or gross violations of the consent conditions results in issue of show cause and directions to the violating industries. Non compliance to the directions issued results in closure of the unit.

The following industries were issued closure directions in the year 2019-20:

- 1. Alembic Pharamceuticals, Samardung, South Sikkim;
- 2. Indchemie Health Specialities, Kumrek, East Sikkim;
- 3. Regal Healthcare, Bhasmey, East Sikkim;
- 4. Savi Health Science, Majhitar, East Sikkim;
- 5. SBL Pvt. Ltd, Majhtar, East Sikkim;

### 6. Ideal Cures, Pacheykhani, East Sikkim.

As per the Methodology for assessing environmental compensation prepared by Central Pollution Control Board the industrial units mentioned in Sl. No. 1 & 2 were imposed environmental compensation amounting to Rs. 4,25,000/- & Rs. 7,50,000/- respectively. The environmental compensation for the remaining industrial units has also been calculated and forwarded to CPCB-Regional Directorate for according approval.



### STATE POLLUTION CONTROL BOARD SIKKIM

### DEPARTMENT OF FORESTS & ENVIRONMENT GOVERNMENT OF SIKKIM DEORALI – 737101

### LIST OF NGT CASES

SL.	ORDER AND FILE NO.	MATTER/SUBJECT
NO.		
1.	O.A. No. 325/2015	Restoration of water Bodies( in the matter of
	File no loose	Lt.colSarvadaman Singh Oberoi Vs Union of India
		&Ors
2.	O.A. No. 425/2019 File no.	Vijay Kumar Vs State of Himachal Pradesh
	941/SPCB/GOS 2019	(Minimum flow maintain 15% to 20% by HEPs)
3.	O.A. No. 804/2017 File no	Rajiv Narayan Vs Anr Vs Union of India&Ors.
	953/SPCB/GOS/2019	(Hazardous waste)Quarterly Report
	O.A. No. 804/2016 M.A.	Compliance status on Hazardous waste- (Monitoring
	No.70/2018 loose file	committee)
		Rajiv Narayan & Anr Vs Union of India & Ors
	O.A. No. 804/2017/ File	(Categorization of state based on threshold limit of
	loose	generation of hazardous waste-reg.)
4.	O.A. No. 673 of 2018 File no.	News items published in the Hindu more river stretch
	887/SPCB/GOS/2019 part II	are now critically polluted CPCB.
		More river stretched are now critically polluted CPCB.
	O.A. No. 673/2018/File	RRC Action Plan NGT
	loose.	
	O A N. (72/2010 Fil. 1	
	O.A. No. 673/2018 File loose	
5.	O.A. No. 496/2016 File no.	News Items Published in Hindustan Times "Dirty
] 3.	976/SPCB/GOS/2019	flows your drinking water "authored by RitanHaldar-
	7 (0/31 CD/OOS/2017	reg
6.	O.A. No. 95/2018 File no.	Aryavart Foundation Vs M/s Vapi Green Environment
0.	973/SPOCB/GOS/2019	ltd&ors (Performance Audit of PCBS/PCCS)
	7 7 5 7 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5	indeeding (1 dirotinumed rudit of 1 dbb/1 ddb)

7.	O.A. No. 148/2016( M.A No	Mahesh Chandra Saxena Vs South Delhi Municipal
	. 686/2017) with Original	Corporation &Ors
	Application No. 70/2018	Formore constant
8.	O.A. No. 639/2018 loose file	Shailesh Singh Vs State of Haryana and Ors ( Action
		taken report of Air pollution by industries)
9.	O.A. No. 1038/2018 File No.	News items published In "The Asian Age" Authored
	890/GOS/SPCB loose	by Sanjay Kumar Titled "CPCB to rank industrial unit
		on pollution level"
10.	O.A. No. 829/2019 loose file	Matter of Lt Col. Sarvadaman Singh Oberoi Vs Union
		of India and Ors ( Water pollution by sewage waste
		and others)
11.	O.A. No. 44/2016 File no.	Mushtakeen Vs. MoEF& CC and Ors
	966/SPCB/GOS	(illegal mining)
12.	O.A. NO. 851/2019 File No.	Matter of Amit Jain Vs Union of India(Hon'ble NGT)
	9354/SPCB/GOS/2019	
13.	O.A. No. 627/2019 File No.	Social Action for Forest and Environment Vs Union of
	894/SPCB/GOS/2019	India and ANR( Environmental clearance issued by
		the CPCB would also be deemed to be consent to
		establish (CTE) for industries of categories 'A' and
		'B'
14.	O.A. No. 21/2014 File	Vardhaman Kaushik Vs Union of India &Ors and
	No.575/SPCB/GOS/2015	O.A. No. 95 of 2014 Sanjay Kulshrestha Vs Union of
		India&Ors
		( Ambient air quality analysis)
15.	O.A. No. 432/2015File No	Ashwini Kumar Vs Union of India &Ors (Protection
	689/SPCB/GOS/2016	of indigenous species of cows and others)
16.	O.A. No. 597/2019 File	Rajendra Tyagi & another Vs Union of India and other
	No/GOS/967/SPCB	filed in Hon'ble NGT, New Delhi ( Preventing water
		wastage and misuse of ground water)
17.	O.A. No. 681/2018 File no.	Authored by Shri Vishwa Mohan/NCAP (NCAP with
	927/GOS/SPCB	multiple timeline to clean air in 102 cities to be
		released around August 2015 )
18.	O.A. No. 710 of 2017 with	Shaliesh Singh Vs Sheela Hospital &Trauma Center,
	O.A. No. 711/2017 File no.	Shahjhanpur&Ors
	914/SPCB/GOS/2019	( Bio- medical waste)
19.	O.A. No. 384/2016 File no.	Matter of Khalid Ashraf Vs Union of India(
	957/ SPCB/GOS	Prohibiting use of thread made of nylon synthetic
		material)

20.	O.A. No. 498/2015 File no.	Gauray Kumar Barsal Vs Union of India&Ors
20.		
	602/SPCB/GOS 2015-16	(Regarding state Action plan for climate change)
		Pushp Saini Vs Ministry of Enivronment Forest and
	O.A. No. 498 File no.	Climate Change &Ors (Maintaing environmental flow
	624/SPCB/GOS/2016	E-flow in river down streams
21.	O.A. No. 348/2017 File no.	Shailesh Singh Vs Al-Dua Food Processing.Pvt.Ltd (
	932/SPCB/GOS/2019	Guidelines for utilisation of treated effuent in
		irrigation field)
22.	O.A. No. 353/2016 (M.A.	Bhuvesh Singh Katoch Applicant Vs Ministry of
	No. 360/2017 with O.A.No.	Environment, Forest and Climate Change with
	417/2017(M.A. no.	DharampalMathotra Vs State of HP and Ors. (illegal
	1321/2017& M.A. No.	burning of municipal solid waste)
	1322/2017) File no.	burning of municipal solid waste)
	889/SPCB/GOS/2019	
23.	O.A. No. 471 File no.	People for onward Research Nutrition Vs MoEF&
23.	804/SPCB/GOS/2017	_
	804/SFCB/GOS/2017	CC&Ors (Pet cock whether it is hazardous waste or
2.4	0.4.24.62011.53	notin provision of hazardous waste management)
24.	O.A. No. 24 of 2011 File no.	Samir Mehta Vs Union of India &Ors (Proposal to
	714/SPCB/GoS/2017	spend the amount collected under the order of the
		Hon'ble Tribunal)
25.	O.A. No. 503/2018/File no.	R.K Gupta Vs Delhi Development Authority &Ors (
	921/SPCB/GOS/2019	Functioning at level of Wetland Authorities in all State
		/UTs)
26.	O.A. No.	VinectDhand Vs Union of india&Ors before Hon'ble
	592/SPCB/GOS/2015-16	NGT,New Delhi ( Air pollution causing Pre-mature
		death etc)
27.	Civil Appeal No. 1657of	Bharat Jhunjhunwala Vs Pushp Saini and Ors
	2018 loose file	
28.	O.A. No. 736/2019 File no	Rohit kumarVs State of Sikkim NGT
	.940/SPCB/GoS/2019	( operation of drugs manufacturing companies at
		samardung block polluting the Teesta river)
29.	O.A. No. 621/2018 File	Mahendra Pandey Vs Union of India &Ors (E-waste)
	no.961/GOS/SPCB	The second state of the se
30.	O.A. No. 260/2019 File no.	Principal Bench in the matter of Charcoal Klins
	970/SPCB/GOS	operating in the States/ UTs
31.	O.A. No. 606 File no.	Municipal Solid Waste Management Rule 2016(
J1.	960/GOS/SPCB	Chief Secretary)
	200/OOS/SI CD	Cinci Secietaly)

32.	O.A. No. 568 File no.	Managing Director, CGR Hall makers Pvt. Ltd Vs
	SPCB/GOS	Govt. of India (Regime to check acidic activities in testing of gold)
		testing of gold)
33.	O.A. No. 360/2018 File no	Preparation of District Environment plan
33.	938/SPCB/GOS/2019	Treparation of District Environment plan
34.	File no. GOS/497/SPCB	High Court cases - Water sampling Rameshwan
		Tamang & Another Vs. Union of India &Ors
35.	O.A. No. 158/2016 File no.	Subhash Dutta Vs State of West Bengal &Ors. (Noise
	803/SPCB/GOS/2017	meter and sound limit)
26	OLD NI 1/2001/0007 E'1	MALGANIA G
36.	SLP No./6308/2007 File no	Ms Ankur Gutka Vs Indian Asthma care Society and
		Orsetc ( plastic waste)
37.	O.A. No. 606/2018 File loose	Aruna Mathur- Compliance of Municipal Solid waste
		Management Rule,2016
38.	O.A. No. 46/2018 M.A. 1474	Nuggehalli Jayasimha Vs Government of NCTof
	2018 M.A. 1539/2018 File	Delhi with Resident of C2 Block Aya NagarVrs Govt
	No. SPCB/GOS/2019	of NCT of Delhi (Bio-medical)
40.	File No.	M. C. Mehta, Petitioner Vs Unionof India & Ors,(
	822/SPCB/GOS/2018	Respondent) Ban on use of furnace oil & pet coke in
		the state of Haryana, UP and Rajasthan.

Item No. 37 Court No. 1

# BEFORE THE NATIONAL GREEN TRIBUNAL PRINCIPAL BENCH, NEW DELHI

Original Application No. 736/2019

Rohit Kumar Applicant(s)

Versus

State of Sikkim Respondent(s)

Date of hearing: 18.09.2019

CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON

HON'BLE MR. JUSTICE S.P. WANGDI, JUDICIAL MEMBER HON'BLE MR. JUSTICE K. RAMAKRISHNAN, JUDICIAL MEMBER

HON'BLE DR. NAGIN NANDA, EXPERT MEMBER

### Application is registered based on a complaint received by email

#### **ORDER**

Grievance in this letter, which has been treated as an application is against illegal operation of drug manufacturing companies at Samardung Basti, Karek Block, Namthang Laka, South Sikkim-737126 polluting the Teesta River.

Let a joint Committee of the Central Pollution Control Board (CPCB) and the Sikkim State Pollution Control Board look into the matter, take appropriate action in accordance with law and furnish a factual and action taken report in the matter within two months by e-mail at judicial-ngt@gov.in. The nodal agency for compliance and coordination will be the Sikkim State Pollution Control Board.

A copy of this order, along with complaint, be sent to the CPCB and the Sikkim State Pollution Control Board by e-mail for compliance.

List for further consideration on 16.01.2020.

Adarsh Kumar Goel, CP

S.P. Wangdi, JM

K. Ramakrishnan, JM

Dr. Nagin Nanda, EM

Court No. 1 Item No.06 BEFORE THE NATIONAL GREEN TRIBUNAL PRINCIPAL BENCH, NEW DELHI Original Application No. 736/2019 Applicant(s) Robit Kumar Versus Respondent(s) State of Sikkim Date of hearing: 16.01.2020 HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON HON'BLE MR. JUSTICE S.P WANGDI, JUDICIAL MEMBER HON'BLE DR. NAGIN NANDA, EXPERT MEMBER HON'BLE MR. SIDDHANTA DAS, EXPERT MEMBER CORAM: ORDER A report was sought from CPCB and Sikkim State PCB with reference to the allegation of illegal operation of drug manufacturing companies at Samardung Basti, Karek Block, Namthang Laka, South Sikkim-737126 polluting the Teesta River. Accordingly, report has been filed on 15.11.2019 to the effect that the environment norms are being complied with. In view of the above, no further order is necessary, The application is disposed of Adarsh Kumar Goel, CP S.P Wangdi, JM Dr. Nagin Nanda, EM Siddhanta Das, EM January 16, 2020

### **Designated Best Use Water Quality Criteria:**

Designated-Best Use	Class of water	Criteria
Outdoor bathing (Organized)	В	Total Coliforms: MPN/100ml shall be 500 or less.  pH: between 6.5 and 8.5  Dissolved Oxygen: 5mg/l or more.  Biochemical Oxygen Demand: 5 days 20C  3mg/l or less

Source: Central Pollution Control Board (CPCB), Delhi.



### General Parameters to be analyzed regularly

Month: June Year: 2019

Station Code	Туре	Sampling Date	pН	Cond. µmhos/ cm	NO <sub>3</sub> -N mg/l	D.O mg/l	B.O.D mg/l	T. Coliform MPN/100ml	Faecal Coliform 100/ml
1801	R	03/06/19	7.0	260	1.8	12.0	2.1	110	45
1802	R	06/06/19	7.0	230	2.0	12.0	2.0	130	50
1803	R	06/06/19	6.5	200	2.2	10.0	2.5	180	70
1804	R	10/06/19	6.6	190	2.7	12.0	2.0	220	100
1805	R	11/06/19	6.8	180	2.5	10.0	2.5	210	95
1806	R	12/06/19	6.5	185	2.3	10.0	2.2	190	85
1807	R	14/06/19	6.8	190	2.2	10.0	2.0	180	70
1808	R	18/06/19	6.7	200	2.1	12.0	2.0	170	65
1809	R	20/06/19	6.6	215	2.2	10.0	2.5	190	70
2034	R	24/06/198	7.2	250	2.0	12.0	2.0	100	45
2035	R	26/06/19	7.0	220	2.0	12.0	2.0	110	45
2036	R	26/06/19	6.5	200	2.2	12.0	2.5	110	50
2037	R	27/06/19	6.5	210	2.1	10.0	2.0	120	55
2038	R	28/06/19	6.5	230	2.0	10.0	2.5	110	40

### MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

### General Parameters to be analyzed regularly

Month: June Year: 2019

Station Code	Type	Sampling Date	Turb. NTU	Alk.mg/l	PO <sub>4</sub> mg/l	SO <sub>4</sub> mg/l	Cl mg/l	Hardness mg/l	Ca++ mg/l	NO <sub>2</sub> -N mg/l	Fluoride mg/l
1801	R	03/06/19	3.0	35	0.01	20	25	35	32	1.0	NT
1802	R	06/06/19	2.8	40	0.02	22	30	38	30	1.8	NT
1803	R	06/06/19	3.1	50	NT	23	25	35	30	2.0	NT
1804	R	10/06/19	3.5	65	NT	25	30	28	25	2.5	NT
1805	R	11/06/19	3.0	60	NT	23	25	35	30	2.4	NT
1806	R	12/06/19	3.1	55	NT	25	28	35	32	2.2	NT
1807	R	14/06/19	2.8	50	NT	22	36	38	33	2.2	NT
1808	R	18/06/19	2.9	55	0.02	24	28	35	30	2.1	NT
1809	R	20/06/19	3.0	50	0.04	25	25	45	35	2.4	NT
2034	R	24/06/198	3.0	30	0.01	22	22	30	30	1.2	NT
2035	R	26/06/19	2.8	35	0.03	20	23	35	25	2.0	NT
2036	R	26/06/19	2.8	40	0.02	24	22	30	25	2.1	NT
2037	R	27/06/19	2.9	50	0.04	23	20	35	24	2.0	NT
2038	R	28/06/19	2.5	45	0.02	25	25	37	28	2.0	NT

NT: Not Traceable

General Parameters to be analyzed regularly

Month: July Year: 2019

Station Code	Туре	Sampling Date	рН	Cond. µmhos/ cm	NO <sub>3</sub> -N mg/l	D.O mg/l	B.O.D mg/l	T. Coliform MPN/100ml	Faecal Coliform 100/ml
1801	R	02/07/19	7.0	260	1.8	12.0	2.1	110	45
1802	R	05/07/19	7.0	230	2.0	12.0	2.0	130	50
1803	R	08/07/19	6.5	200	2.2	10.0	2.5	180	70
1804	R	10/07/19	6.6	190	2.7	08.0	2.0	220	100
1805	R	10/07/19	6.8	180	2.5	10.0	2.5	210	95
1806	R	12/07/19	6.5	185	2.3	10.0	2.2	190	85
1807	R	12/07/19	6.8	190	2.2	10.0	2.0	180	70
1808	R	15/07/19	6.7	200	2.1	12.0	2.0	170	65
1809	R	15/07/19	6.6	215	2.2	10.0	2.5	190	70
2034	R	17/07/198	7.2	250	2.0	12.0	2.0	100	45
2035	R	17/07/19	7.0	220	2.0	12.0	2.0	110	45
2036	R	19/07/19	6.5	200	2.2	12.0	2.5	110	50
2037	R	22/07/19	6.5	210	2.1	10.0	2.0	120	55
2038	R	22/07/19	6.5	230	2.0	10.0	2.5	110	40

### MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES

# General Parameters to be analyzed regularly Month: July Year: 2019

Station Code	Type	Sampling Date	Turb. NTU	Alk.mg/l	PO <sub>4</sub> mg/l	SO <sub>4</sub> mg/l	Cl mg/l	Hardness mg/l	Ca++ mg/l	NO <sub>2</sub> -N mg/l	Fluoride mg/l
1801	R	02/07/19	3.0	35	0.01	20	25	35	32	1.0	NT
1802	R	05/07/19	2.8	40	0.02	22	30	38	30	1.8	NT
1803	R	08/07/19	3.1	50	NT	23	25	35	30	2.0	NT
1804	R	10/07/19	3.5	65	NT	25	30	28	25	2.5	NT
1805	R	10/07/19	3.0	60	NT	23	25	35	30	2.4	NT
1806	R	12/07/19	3.1	55	NT	25	28	35	32	2.2	NT
1807	R	12/07/19	2.8	50	NT	22	36	38	33	2.2	NT
1808	R	15/07/19	2.9	55	0.02	24	28	35	30	2.1	NT
1809	R	15/07/19	3.0	50	0.04	25	25	45	35	2.4	NT
2034	R	17/07/19	3.0	30	0.01	22	22	30	30	1.2	NT
2035	R	17/07/19	2.8	35	0.03	20	23	35	25	2.0	NT
2036	R	19/07/19	2.8	40	0.02	24	22	30	25	2.1	NT
2037	R	22/07/19	2.9	50	0.04	23	20	35	24	2.0	NT
2038	R	22/07/19	2.5	45	0.02	25	25	37	28	2.0	NT

NT: Not Traceable

General Parameters to be analyzed regularly th: August Year: 2019

Month: August

Туре	Sampling Date	рН	Cond.	NO <sub>3</sub> -N mg/l	D.O mg/l	B.O.D mg/l	T. Coliform MPN/100ml	Faecal Coliform 100/ml
R	02/08/19	7.0	260	1.8	12.0	2.1	110	45
R	05/08/19	7.0	230	2.0	10.0	2.0	130	50
R	09/08/19	6.5	200	2.2	10.0	2.5	180	70
R	12/08/19	6.6	190	2.7	07.0	2.0	220	100
R	12/08/19	6.8	180	2.5	09.0	2.5	210	95
R	14/08/19	6.5	185	2.3	10.0	2.2	190	85
R	14/08/19	6.8	190	2.2	10.0	2.0	180	70
R	16/08/19	6.7	200	2.1	12.0	2.0	170	65
R	16/08/19	6.6	215	2.2	10.0	2.5	190	70
R	19/08/19	7.2	250	2.0	12.0	2.0	100	45
R	19/08/19	7.0	220	2.0	12.0	2.0	110	45
R	21/08/19	6.5	200	2.2	12.0	2.5	110	50
R	26/08/19	6.5	210	2.1	10.0	2.0	120	55
R	26/08/19	6.5	230	2.0	10.0	2.5	110	40
	R R R R R R R R R R R R	R 02/08/19 R 05/08/19 R 09/08/19 R 12/08/19 R 12/08/19 R 14/08/19 R 14/08/19 R 16/08/19 R 16/08/19 R 19/08/19 R 21/08/19 R 21/08/19	R 02/08/19 7.0  R 05/08/19 7.0  R 09/08/19 6.5  R 12/08/19 6.6  R 12/08/19 6.8  R 14/08/19 6.5  R 14/08/19 6.5  R 16/08/19 6.6  R 19/08/19 7.2  R 19/08/19 7.0  R 21/08/19 6.5  R 21/08/19 6.5	R 02/08/19 7.0 260  R 05/08/19 7.0 230  R 09/08/19 6.5 200  R 12/08/19 6.6 190  R 12/08/19 6.8 180  R 14/08/19 6.5 185  R 14/08/19 6.7 200  R 16/08/19 6.6 215  R 19/08/19 7.2 250  R 19/08/19 7.0 220  R 21/08/19 6.5 200  R 21/08/19 6.5 200	R       02/08/19       7.0       260       1.8         R       05/08/19       7.0       230       2.0         R       09/08/19       6.5       200       2.2         R       12/08/19       6.6       190       2.7         R       12/08/19       6.8       180       2.5         R       14/08/19       6.5       185       2.3         R       14/08/19       6.8       190       2.2         R       16/08/19       6.7       200       2.1         R       16/08/19       6.6       215       2.2         R       19/08/19       7.2       250       2.0         R       19/08/19       7.0       220       2.0         R       21/08/19       6.5       200       2.2         R       26/08/19       6.5       210       2.1	mmhos/cm   mg/l   mg/l   R   02/08/19   7.0   260   1.8   12.0     R   05/08/19   7.0   230   2.0   10.0     R   09/08/19   6.5   200   2.2   10.0     R   12/08/19   6.6   190   2.7   07.0     R   12/08/19   6.8   180   2.5   09.0     R   14/08/19   6.5   185   2.3   10.0     R   14/08/19   6.8   190   2.2   10.0     R   16/08/19   6.7   200   2.1   12.0     R   16/08/19   6.6   215   2.2   10.0     R   19/08/19   7.2   250   2.0   12.0     R   19/08/19   7.0   220   2.0   12.0     R   21/08/19   6.5   200   2.2   12.0     R   26/08/19   6.5   210   2.1   10.0     R   26/08/19   6.5   210   2.1   10.0	R       02/08/19       7.0       260       1.8       12.0       2.1         R       05/08/19       7.0       230       2.0       10.0       2.0         R       09/08/19       6.5       200       2.2       10.0       2.5         R       12/08/19       6.6       190       2.7       07.0       2.0         R       12/08/19       6.8       180       2.5       09.0       2.5         R       14/08/19       6.5       185       2.3       10.0       2.2         R       14/08/19       6.8       190       2.2       10.0       2.0         R       16/08/19       6.7       200       2.1       12.0       2.0         R       16/08/19       6.6       215       2.2       10.0       2.5         R       19/08/19       7.2       250       2.0       12.0       2.0         R       19/08/19       7.0       220       2.0       12.0       2.0         R       21/08/19       6.5       200       2.2       12.0       2.5         R       26/08/19       6.5       210       2.1       10.0       2.5 <td>R       02/08/19       7.0       260       1.8       12.0       2.1       110         R       05/08/19       7.0       230       2.0       10.0       2.0       130         R       09/08/19       6.5       200       2.2       10.0       2.5       180         R       12/08/19       6.6       190       2.7       07.0       2.0       220         R       12/08/19       6.8       180       2.5       09.0       2.5       210         R       14/08/19       6.5       185       2.3       10.0       2.2       190         R       14/08/19       6.8       190       2.2       10.0       2.0       180         R       16/08/19       6.7       200       2.1       12.0       2.0       170         R       16/08/19       6.6       215       2.2       10.0       2.5       190         R       19/08/19       7.2       250       2.0       12.0       2.0       100         R       19/08/19       7.0       220       2.0       12.0       2.5       110         R       21/08/19       6.5       200       2.2</td>	R       02/08/19       7.0       260       1.8       12.0       2.1       110         R       05/08/19       7.0       230       2.0       10.0       2.0       130         R       09/08/19       6.5       200       2.2       10.0       2.5       180         R       12/08/19       6.6       190       2.7       07.0       2.0       220         R       12/08/19       6.8       180       2.5       09.0       2.5       210         R       14/08/19       6.5       185       2.3       10.0       2.2       190         R       14/08/19       6.8       190       2.2       10.0       2.0       180         R       16/08/19       6.7       200       2.1       12.0       2.0       170         R       16/08/19       6.6       215       2.2       10.0       2.5       190         R       19/08/19       7.2       250       2.0       12.0       2.0       100         R       19/08/19       7.0       220       2.0       12.0       2.5       110         R       21/08/19       6.5       200       2.2

General Parameters to be analyzed regularly nth: September Year: 2019

Month: September

Station Code	Туре	Sampling Date	pН	Cond.	NO <sub>3</sub> -N mg/l	D.O mg/l	B.O.D mg/l	T. Coliform MPN/100ml	Faecal Coliform 100/ml
1801	R	02/09/19	7.0	260	1.8	12.0	2.1	110	45
1802	R	04/09/19	6.5	230	2.0	12.0	2.0	130	50
1803	R	06/09/19	6.5	200	2.2	10.0	2.5	180	70
1804	R	10/09/19	6.6	190	2.7	08.0	2.0	210	90
1805	R	10/09/19	6.8	180	2.5	08.0	2.5	210	95
1806	R	12/09/19	6.5	185	2.3	10.0	2.2	190	85
1807	R	12/09/19	6.8	190	2.2	10.0	2.0	180	70
1808	R	16/09/19	6.7	200	2.1	12.0	2.0	170	65
1809	R	16/09/19	6.6	215	2.2	10.0	2.5	190	70
2034	R	18/09/19	7.2	250	2.0	12.0	2.0	100	45
2035	R	18/09/19	7.0	220	2.0	12.0	2.0	110	45
2036	R	20/09/19	6.5	200	2.2	12.0	2.5	110	50
2037	R	23/09/19	6.5	210	2.1	10.0	2.0	120	55
2038	R	23/09/19	6.5	230	2.0	10.0	2.5	110	40

General Parameters to be analyzed regularly

Month:October Year: 2019

Station Code	Туре	Sampling Date	pН	Cond.	NO <sub>3</sub> -N mg/l	D.O mg/l	B.O.D mg/l	MPN/100ml	Faecal Coliform 100/ml
1801	R	01/10/19	7.0	250	1.2	12.0	1.8	70	25
1802	R	03/1 <b>0</b> /19	7.0	240	1.1	10.5	2.0	90	40
1803	R	14/1 <b>0</b> /19	6.5	230	1.5	10.0	2.2	100	50
1804	R	16/1 <b>0</b> /19	6.0	180	2.5	7.0	2.7	180	75
1805	R	16/1 <b>0</b> /19	6.5	190	2.3	8.5	2.5	160	65
1806	R	18/1 <b>0</b> /19	6.5	195	2.1	9.2	2.5	140	55
1807	R	18/1 <b>0</b> /19	7.0	205	2.0	9.0	2.6	130	50
1808	R	21/1 <b>0</b> /19	6.5	220	2.1	9.2	2.5	150	60
1809	R	21/1 <b>0</b> /19	6.5	240	2.1	9.5	2.3	160	65
2034	R	23/1 <b>0</b> /19	7.0	230	1.0	11.5	1.5	80	30
2035	R	23/1 <b>0</b> /19	7.0	190	1.2	10.5	1.8	90	45
2036	R	24/1 <b>0</b> /19	6.5	180	1.4	10.2	1.6	110	55
2037	R	25/1 <b>0</b> /19	6.5	200	1.6	10.5	1.8	140	60
2038	R	25/1 <b>0</b> /19	6.5	220	1.9	9.5	2.0	160	75

General Parameters to be analyzed regularly

Month: November Year: 2019

Station	Type	Sampling Date	pН	Cond.	NO <sub>3</sub> -N	D.O mg/l	B.O.D mg/l	T. Coliform	Faecal
Code				μmhos/ cm	mg/l			MPN/100ml	Coliform 100/ml
1801	R	01/11/19	7.5	240	0.8	12.5	1.5	65	100/111
1802	R	04/11/19	7.0	220	1.0	10.5	1.7	75	15
1803	R	06/11/19	7.0	220	1.2	9.5	2.0	80	15
1804	R	08/11/19	6.0	150	3.5	8.0	2.8	150	30
1805	R	08/11/19	6.5	170	2.5	8.5	2.5	110	20
1806	R	11/11/19	6.5	190	1.0	9.0	2.0	100	18
1807	R	11/11/19	7.0	210	1.2	9.0	2.2	105	16
1808	R	13/11/19	6.5	230	1.5	9.5	2.4	110	20
1809	R	13/11/19	6.5	250	2.0	10.0	2.5	130	25
2034	R	15/11/19	7.0	210	0.5	11.5	1.5	60	15
2035	R	15/11/19	7.0	180	0.9	10.5	1.2	45	10
2036	R	18/11/19	6.5	200	1.2	9.5	1.5	45	10
2037	R	18/11/19	6.5	210	1.5	9.0	1.7	40	10
2038	R	20/11/19	6.5	240	1.8	9.5	2.5	75	15

### General Parameters to be analyzed regularly

			-				Mo	onth: December	Year: 2019
Station Code	Туре	Sampling Date	pН	Cond. µmhos/ cm	NO <sub>3</sub> -N mg/l	D.O mg/l	B.O.D mg/l	T. Coliform MPN/100ml	Faecal Coliform 100/ml
1801	R	02/12/19	7.0	270	1.5	12.0	1.2	90	40
1802	R	04/12/19	7.0	250	1.7	10.0	1.5	100	60
1803	R	06/12/19	6.0	220	2.0	10.0	1.8	120	65
1804	R	09/12/19	6.5	190	2.5	08.0	2.3	200	90
1805	R	09/12/19	6.5	210	2.3	10.0	2.2	180	85
1806	R	11/12/19	6.5	220	2.2	10.0	2.5	170	75
1807	R	11/12/19	6.5	240	2.1	09.0	2.4	160	60
1808	R	13/12/19	6.0	240	2.2	10.0	2.3	160	55
1809	R	13/12/19	6.5	260	2.3	10.0	2.5	180	80
2034	R	17/12/19	7.5	240	1.3	11.0	1.4	80	35
2035	R	17/12/19	7.0	220	1.5	10.0	1.6	85	40
2036	R	19/12/19	6.5	230	1.8	08.0	1.8	100	55
2037	R	19/12/19	6.5	240	2.0	08.0	1.8	110	55
2038	R	23/12/19	6.5	260	2.1	10.0	2.0	150	70

General Parameters to be analyzed regularly

Month: January Year: 2020

Station	Type	Sampling Date	pН	Cond.	NO <sub>3</sub> -N	D.O mg/l	B.O.D mg/l	T. Coliform	Faecal
Code				μmhos/ cm	mg/l			MPN/100ml	Coliform 100/ml
1801	R	03/01/2020	7.5	265	1.4	12.0	1.3	80	35
1802	R	06/01/2020	7.0	255	1.6	12.0	1.5	95	45
1803	R	08/01/2020	6.5	210	2.0	10.0	1.7	110	65
1804	R	10/01/2020	6.0	180	2.4	08.0	2.5	180	85
1805	R	10/01/2020	6.5	200	2.3	09.0	2.2	170	80
1806	R	13/01/2020	6.5	220	2.2	10.0	2.4	170	80
1807	R	13/01/2020	6.5	240	2.1	09.0	2.4	160	65
1808	R	16/01/2020	6.0	230	2.2	10.0	2.3	150	55
1809	R	16/01/2020	6.5	260	2.3	10.0	2.5	170	80
2034	R	20/01/2020	7.0	250	1.4	11.0	1.5	80	35
2035	R	20/01/2020	7.0	230	1.2	10.0	1.6	85	40
2036	R	22/01/2020	6.5	230	1.3	09.0	1.8	90	45
2037	R	22/01/2020	6.5	240	1.8	08.0	1.7	110	50
2038	R	24/01/2020	6.5	255	1.8	09.0	2.0	160	75

General Parameters to be analyzed regularly

Month: February Year: 2020

Station Code	Type	Sampling Date	pН	Cond.	NO <sub>3</sub> -N mg/l	D.O mg/l	B.O.D mg/l	T. Coliform MPN/100ml	Faecal Coliform 100/ml
1801	R	03/02/2020	7.0	180	1.0	9.0	0.8	70	15
1802	R	05/02/2020	7.0	165	1.2	9.0	1.0	95	30
1803	R	07/02/2020	6.5	150	1.6	8.0	1.0	100	35
1804	R	10/02/2020	6.5	155	1.8	6.0	1.2	120	40
1805	R	10/02/2020	6.5	160	1.8	6.5	1.0	110	35
1806	R	12/02/2020	6.5	165	1.7	6.8	1.1	120	42
1807	R	12/02/2020	7.0	170	1.6	7.0	1.0	100	32
1808	R	14/02/2020	7.0	175	1.7	7.0	1.1	100	30
1809	R	14/02/2020	6.5	170	1.6	7.0	1.0	110	35
2034	R	17/02/2020	7.5	190	1.2	9.5	0.8	60	15
2035	R	17/02/2020	7.0	140	1.2	9.0	1.0	70	18
2036	R	17/02/2020	6.5	165	1.3	9.0	1.2	75	20
2037	R	19/02/2020	6.5	130	1.5	8.0	1.1	90	25
2038	R	19/02/2020	6.5	165	1.6	7.0	1.0	105	30

#### General Parameters to be analyzed regularly

Month: March Year: 2020 Station Type Sampling Date рН Cond. NO<sub>3</sub>-N D.O mg/l B.O.D mg/l T. Coliform Faecal Code µmhos/ mg/l MPN/100ml Coliform 100/ml cm 1801 R 02/03/2020 7.5 165 1.0 8.5 0.9 60 15 8.5 95 30 1802 R 04/03/2020 7.0 165 1.2 1.0 1803 R 6.5 150 1.5 8.0 1.0 100 30 06/03/2020 145 1.2 110 35 R 6.0 1.8 6.0 1804 11/03/2020 155 1.7 1.0 35 1805 R 6.5 6.5 110 11/03/2020 6.5 160 1.4 6.8 1.1 120 40 1806 R 13/03/2020 1807 170 7.0 1.0 32 R 6.5 100 13/03/2020 1.6 170 1.7 7.0 1.1 100 30 1808 R 16/03/2020 6.0 175 1.5 7.0 35 1809 R 16/03/2020 6.5 1.0 110 2034 R 18/03/2020 7.0 170 1.0 9.0 0.8 60 15 2035 R 7.0 160 1.2 9.0 1.0 70 18 18/03/2020 2036 R 18/03/2020 6.5 155 1.3 8.0 1.2 75 20 7.5 2037 R 20/03/2020 6.5 145 1.3 1.1 90 25 2038 160 1.5 7.0 1.0 100 30 R 20/03/2020 6.5

### **Granted Consent Applications**

SI. No.	Application No.	Application Name	Application Type	Application Date	Application For	Certificate For	Consent Order
1	131383	BANKHIM RESIDENCY	CTE	19-02-2020	both	new	View Certificate
2	107305	Pakaged Drinking Water	CTE	27-09-2019	both	new	View Certificate
3	90948	BISHNU MAYA CHETTRI	CTE	05-11-2019	both	new	View Certificate
4	99817	palm grove, suites inn & spa	CTE	03-12-2019	both	new	View Certificate
5	94728	Limited	CTE	24-07-2019	both	new	View Certificate
6	131144	Restaurent	CTE	18-02-2020	both	new	View Certificate
7	107577	SK GARAGE	CTE	21-01-2020	both	new	View Certificate
8	126316	SC Motors	CTE	21-01-2020	both	new	View Certificate
9	129698	apex motorcycles	CTE	13-02-2020	both	new	View Certificate
10	89204	Tranquila Cottage	CTE	06-11-2019	both	new	View Certificate
11	85921	POWER PROJECT	CTE	13-06-2019	both	reNew	View Certificate
12	117290	K Square	CTE	11-11-2019	both	new	View Certificate
13	108279	THE ORBIT INTERNATIONAL	CTE	11-09-2019	both	new	View Certificate
14	108300	THE ORBIT REGENCY	CTE	11-09-2019	both	new	View Certificate
15	117517	Roll Corner MG Marg Gangtok	CTE	05-12-2019	both	new	View Certificate
16	123061	Kengbari Farm	CTE	19-12-2019	both	new	View Certificate
17	122684	Ajay Bio-Tech (India) Ltd.	CTE	19-12-2019	both	new	View Certificate
18	122744	Tushar enterprice	CTE	13-12-2019	both	new	View Certificate
19	105726	UNIT-III 500 KVA	CTE	31-08-2019	both	new	View Certificate
20	104377	Sikkim Dairy Products Pvt Ltd	CTE	20-09-2019	both	new	View Certificate
21	114167	VKJ-NSPR (JV) Stone crusher	CTE	06-11-2019	both	new	View Certificate
22	118125	NAINA KUMAR PRADHAN	CTE	20-11-2019	both	new	View Certificate
23	95020	Hathway Digital Private Limited	CTE	03-07-2019	both	new	View Certificate
24	57852	CORPORATION LIMITED.	CTE	13-04-2019	both	new	
	110285	CENTRE	CTE	28-09-2019	both	new	View Certificate
25	99489	RUCHI DIAGNOSTIC CLINIC	CTE	06-09-2019	both	new	View Certificate
26					both		View Certificate
27	114103	Tibet bike repairing center	CTE	01-11-2019		new	View Certificate
28	103269	Wash and go	CTE	27-09-2019	both	new	View Certificate
29	85373	AutoZone Automobile Garage	CTE	08-07-2019	both	new	View Certificate
30	110411	ROYAL POTALA	CTE	24-09-2019	both	new	View Certificate
31	119882	M/S Maa Jagdamba Trading	CTE	29-11-2019	both	new	View Certificate
32	98883	Sikkim IFFCO Organics Ltd.	CTE	23-07-2019	both	new	View Certificate
33	55008	CORPORATION LIMITED	CTE	10-05-2019	both	new	View Certificate
34	115382	S.R. CRUSHER UNIT	CTE	23-10-2019	both	new	View Certificate
35	57647	CORPORATION LIMITED.	CTE	17-04-2019	both	new	View Certificate
36	99139	Palace view resort	CTE	01-08-2019	both	new	View Certificate
37	106655	KT Garage	CTE	25-09-2019	both	new	View Certificate
38	111964	Tenzmeedentclinic	CTE	22-10-2019	both	new	View Certificate
39	101294	jagriti diagnostics	CTE	27-09-2019	both	new	View Certificate
40	102133	Repair	CTE	05-08-2019	both	new	View Certificate
41	91105	Tashi Sonam Bhutia	CTE	28-06-2019	both	new	View Certificate
42	99676	Sikkim Manipal University	CTE	26-09-2019	both	reNew	View Certificate
43	112174	HOTEL DOKLAM	CTE	12-11-2019	both	new	View Certificate
44	92624	City Corner Service Centre	CTE	21-11-2019	both	new	View Certificate
45	106189	Martam residency	CTE	20-09-2019	both	new	View Certificate
46	81639	MARUTI REPAIR CENTER	CTE	02-07-2019	both	new	View Certificate
47	101046	Sam Lhein	СТЕ	12-11-2019	both	new	View Certificate
48	92010	Le Vintuna Grand	СТЕ	29-06-2019	both	new	View Certificate
49	76770	Summit Denzong Renaissance	CTE	28-06-2019	both	new	View Certificate
50	98574	passang dhopthapa garage	СТЕ	24-07-2019	both	new	View Certificate
51	109867	CENTRE	CTE	20-09-2019	both	new	View Certificate

52	106041	M/S BPA MINING (P).LTD	CTE	30-08-2019	both	new	View Certificate
53	105056	Regal Residency	CTE	27-08-2019	both	new	View Certificate
54	57017	<b>Hotel Shanti Palace</b>	CTE	29-03-2019	both	new	View Certificate
55	91545	SURESH KUMAR MITTAL	CTE	20-08-2019	both	new	View Certificate
56	83874	SARAMSA ENCLAVE	CTE	21-05-2019	both	new	View Certificate
57	83534	m/s life line medicare hall	CTE	20-06-2019	both	new	View Certificate
58	65708	Jolly Aggregate	CTE	18-06-2019	both	new	View Certificate
59	98225	SUBBA, BURTUK, GANGTOK	CTE	18-07-2019	both	new	View Certificate
60	101363	Ramudamu Auto Workshop	CTE	01-08-2019	both	new	View Certificate
61	101415	Hamro Garage	CTE	01-08-2019	both	new	View Certificate
62	93055	Basnet workshop	CTE	28-06-2019	both	new	View Certificate
63	93037	Kuti Ghar Residency	CTE	03-07-2019	both	new	View Certificate
64	101302	Hidden Pardise	CTE	31-07-2019	both	new	View Certificate
65	78655	PADDY FIELD RESORT	CTE	30-04-2019	both	reNew	View Certificate
66	82350	hotel parasol 2	CTE	15-05-2019	both	new	View Certificate
67	77733	Great Eastern Valley Residency	CTE	07-05-2019	both	new	View Certificate
68	55179	Titan Company Limited	CTE	01-04-2019	both	new	View Certificate
69	88074	Hotel Gakhill Resort & Spa	CTE	10-06-2019	both	reNew	View Certificate
70	55099	Hotel Zong	CTE	25-03-2019	both	new	View Certificate
71	75531	(UNIT-II)	CTE	07-05-2019	both	reNew	View Certificate
72	77771	PARASOL INN	CTE	30-04-2019	both	new	View Certificate
73	72460	Olive Hotel & Spa	CTE	08-04-2019	both	new	View Certificate
74	74679	THE MAITREYA HOTEL	CTE	03-05-2019	both	new	View Certificate
				10000			

### **Granted Consent Applications**

SI. No.	Application No.	Application Name	Application Type	Application Date	Application For	Certificate For	Consent Order
1	73266	PRIVATE LIMITED UNIT-I	СТО	08-05-2019	both	reNew	View Certificate
2	63678	Future Retail Limited	СТО	08-05-2019	both	reNew	View Certificate
3	116467	Ratan Builders	СТО	05-11-2019	both	new	View Certificate
4	92171	SIKKIM FOILS	СТО	25-12-2019	both	reNew	View Certificate
5	102746	UNIT-III 500 KVA	СТО	11-02-2020	both	new	View Certificate
6	94805	Roshan Enterprise	СТО	04-07-2019	both	reNew	View Certificate
7	93171	Suraj And Company	СТО	16-07-2019	both	reNew	View Certificate
8	115447	Hotel Tibet	СТО	24-10-2019	both	reNew	View Certificate
9	67649	C G FOODS INDIA PVT LTD	СТО	15-11-2019	both	reNew	View Certificate
10	60928	CG FOODS INDIA PVT. LTD	сто	14-11-2019	both	reNew	View Certificate
11	63955	RAVIRAJ FOILS LIMITED	сто	30-03-2019	both	reNew	View Certificate
12	84587	Hotel Pomra	сто	14-06-2019	both	reNew	View Certificate
	117212	107 RCC GREF	сто	25-11-2019	both	reNew	
13			сто		both		View Certificate
14	80767	MOHAN BAJAJ		09-05-2019		reNew	View Certificate
15	54912	Technoligy	СТО	27-04-2019	both	reNew	View Certificate
16	66409	gati infrastructure private ltd.	СТО	17-12-2019	both	reNew	View Certificate
17	50293	ANJALI FLEX & CONTAINERS	СТО	23-03-2019	both	reNew	View Certificate
18	73725	SAHARSH MOTORS PVT LTD	СТО	03-06-2019	both	reNew	View Certificate
19	75517	Rangit Power Station	СТО	04-07-2019	both	reNew	View Certificate
20	102531	KHIMAT SINGH RAI	СТО	06-08-2019	both	reNew	View Certificate
21	55214	GK Burman Pet & Fragrances	СТО	24-04-2019	both	reNew	View Certificate
22	115432	Cafe Tibet	СТО	24-10-2019	both	reNew	View Certificate
23	115671	Cafe Tibet	СТО	24-10-2019	both	reNew	View Certificate
24	120532	DRAIPL	СТО	30-11-2019	both	new	View Certificate
25	120558	DRAIPL	СТО	30-11-2019	both	new	View Certificate
26	119979	TIRUPATI NAMKEEN	СТО	05-12-2019	both	reNew	View Certificate
27	84215	Norla Packaging Services	СТО	13-01-2020	both	reNew	View Certificate
28	126881	vajra cinema	сто	04-02-2020	both	reNew	View Certificate
29	87709	Hotel Iinorri	СТО	06-06-2019	both	reNew	View Certificate
30	106605	MOHAN BAJAJ	СТО	31-08-2019	both	reNew	View Certificate
31	53139	Sciences Pvt Ltd. Unit II	сто	05-12-2019	both	reNew	View Certificate
32	55397	HUHTAMAKI PPL LTD.	сто	22-04-2019	both	reNew	View Certificate
33	63055	HUHTAMAKI PPL LTD	СТО	23-04-2019	both	reNew	View Certificate
34	73195	PRIVATE LIMITED UNIT-II	СТО	08-05-2019	both	reNew	View Certificate
35	68938	Shiga Energy Pvt.Ltd	СТО	20-05-2019	both	reNew	View Certificate
36	102786	Ipca Laboratories Ltd. Unit-II	сто	19-08-2019	both	new	View Certificate
37	86741	Baching Plant	сто	01-10-2019	both	reNew	View Certificate
38	97509	Dinesh Chandra Agrawal	сто	01-10-2019	both	reNew	View Certificate
	97491	Dinesh Chandra Agrawal	СТО	01-10-2019	both	reNew	
39	51253	ANJALI FLEX & CONTAINERS					View Certificate
40			СТО	03-12-2019	both	reNew	View Certificate
41	73264	Ipca Laboratories ltd.	СТО	01-08-2019	both	reNew	View Certificate
42	97464	Dinesh Chandra Agarwal	СТО	01-10-2019	both	reNew	View Certificate
43	60039	Shiga Energy Pvt.Ltd	СТО	20-05-2019	both	reNew	View Certificate
44	54725	PVT LTD	СТО	09-07-2019	both	reNew	View Certificate
45	114757	107 RCC GREF	СТО	18-11-2019	both	reNew	View Certificate
46	67163	SIKKIMORGANICS	СТО	21-10-2019	both	reNew	View Certificate
47	86712	DG Set	СТО	01-10-2019	both	reNew	View Certificate
48	105517	NEXTGEN PRINTERS PVT LTD	СТО	29-08-2019	both	reNew	View Certificate
49	66525	PVT. LTD.	СТО	27-08-2019	both	reNew	View Certificate
50	52625	Ipca Laboratories Ltd.	СТО	01-08-2019	both	reNew	View Certificate
51	88395	Ideal Cures Pvt Ltd.	СТО	12-09-2019	both	reNew	View Certificate

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52	98267	Maa Jagdamba Trading	СТО	18-07-2019	both	reNew	View Certificate
53	101667	JINDAL INDUSTRY	СТО	01-08-2019	both	reNew	View Certificate
54	109104	HOTEL KARMA RETREAT	СТО	01-10-2019	both	reNew	View Certificate
55	105827	Hotel Tenancy	СТО	02-10-2019	both	reNew	View Certificate
56	74970	REGAL HEALTHCARE LIMITED	СТО	23-04-2019	both	reNew	View Certificate
57	117665	107 RCC	СТО	26-11-2019	both	reNew	View Certificate
58	65219	Gați Infrastructure Pvt. Ltd.	СТО	24-04-2019	both	reNew	View Certificate
59	70958	Projects Pvt. Ltd.	СТО	07-05-2019	both	reNew	View Certificate
60	53268	Pvt ltd	СТО	13-06-2019	both	reNew	View Certificate
61	51023	LTD	СТО	09-07-2019	both	reNew	View Certificate
62	66889	Zydus Wellness Products Itd.	СТО	03-07-2019	both	reNew	View Certificate
63	93570	<b>Malu Electrodes Private Limited</b>	СТО	18-07-2019	both	reNew	View Certificate
64	82185	Sikkim Continental	СТО	22-07-2019	both	reNew	View Certificate
65	72587	Phoenix Udyog Pvt Ltd	СТО	25-07-2019	both	reNew	View Certificate
66	103466	86 RCC (GREF)	сто	24-08-2019	both	reNew	View Certificate
67	103541	86 RCC (GREF)	СТО	24-08-2019	both	reNew	View Certificate
68	91694	86 RCC (GREF)	СТО	27-08-2019	both	reNew	View Certificate
69	85411	Sikkim Pvt Ltd)	СТО	13-09-2019	both	reNew	View Certificate
70	98524	Malu Electrodes Private Limited	СТО	22-07-2019	both	reNew	View Certificate
71	62391	SIKKIM	СТО	26-03-2019	both	reNew	View Certificate
	50327	Zuventus Healthcare Ltd	СТО		both		
72		MOHAN BAJAJ		20-04-2019		reNew	View Certificate
73	80714		СТО	08-05-2019	both	reNew	View Certificate
74	78777	Suryodaya Industries	СТО	07-05-2019	both	reNew	View Certificate
75	106621	MOHAN BAJAJ	СТО	31-08-2019	both	reNew	View Certificate
76	64824	Sikkim Dairy Products Pvt Ltd	СТО	19-08-2019	both	reNew	View Certificate
77	70849	REGAL HEALTHCARE LIMITED	СТО	22-04-2019	both	reNew	View Certificate
78	55474	INFRASTRUCTURE LIMITED	СТО	29-03-2019	both	reNew	View Certificate
79	99735	Palm grove, Suites Inn &Spa	СТО	25-07-2019	both	new	View Certificate
80	50263	HeBa Pharmaceutica LLP	СТО	25-03-2019	both	reNew	View Certificate
81	55223	HeBa Pharmaceutica LLP	СТО	27-03-2019	both	reNew	View Certificate
82	77487	Hotel Yiga Norling	СТО	21-05-2019	both	reNew	View Certificate
83	82097	DG SET	СТО	31-05-2019	both	reNew	View Certificate
84	60546	DELISSO ABODE	СТО	26-06-2019	both	reNew	View Certificate
85	92738	Rajesh Kumar Chettri	СТО	27-06-2019	both	reNew	View Certificate
86	96912	NORKHILL HOTEL	СТО	27-07-2019	both	reNew	View Certificate
87	87305	SANJAY CHANDAK	СТО	04-07-2019	both	reNew	View Certificate
88	55323	Sikkim Manipal University	СТО	18-07-2019	both	reNew	View Certificate
89	59247	HOTEL DEW POND	сто	01-05-2019	both	reNew	View Certificate
90	99842	Phoenix Udyog Pvt Ltd	сто	05-08-2019	both	reNew	View Certificate
91	99058	shanti garage	СТО	23-07-2019	both	reNew	View Certificate
92	93108	Hotel santineketan	СТО	27-06-2019	both	reNew	View Certificate
93	73510	LIMITED	СТО	24-06-2019	both	reNew	View Certificate
94	82157	U Narayan Sharma	СТО	18-06-2019	both	reNew	View Certificate
95	80545	20TH MILE QUARRY	СТО	20-05-2019	both	reNew	View Certificate
96	86562	Hotel Tashi Thondup	СТО	06-06-2019	both	reNew	View Certificate
	66704	LIMITED	СТО	16-05-2019	both	reNew	
97	83168	The Narayani Continental	СТО	20-05-2019	both	reNew	View Certificate
98							View Certificate
99	64616	Pvt. Ltd	СТО	09-04-2019	both	reNew	View Certificate
100	58931	Limited	СТО	27-06-2019	both	reNew	View Certificate
101	60287	PRIVIATE LIMITED	СТО	28-06-2019	both	reNew	View Certificate
102	90167	RESEARCH CENTRE	СТО	11-07-2019	both	reNew	View Certificate
103	78133	LIMITED	СТО	29-04-2019	both	reNew	View Certificate
104	53198	Cipla Limited	СТО	20-06-2019	both	reNew	View Certificate

	E2206	COLDENGRACE LED	CTO	10.06.2010	la - Ala		
105	52396	GOLDENCROSS LTD.	СТО	19-06-2019	both	reNew	View Certificate
106	86088	PVT. LTD.	СТО	01-10-2019	both	reNew	View Certificate
107	85506	hotel grand	СТО	31-05-2019	both	reNew	View Certificate
108	82966	Man Maya Sharma	СТО	23-07-2019	both	reNew	View Certificate
109	96347	Silk route village Resort	СТО	09-07-2019	both	new	View Certificate
110	68545	GK BURMAN PET & FRAGRANCES	СТО	30-03-2019	both	reNew	View Certificate
111	63045	ltd.	СТО	26-04-2019	both	reNew	View Certificate
112	88195	COFFE DAY GLOBAL LTD	СТО	29-08-2019	both	reNew	View Certificate
113	102077	PVT. LTD.	СТО	13-08-2019	both	reNew	View Certificate
114	98126	Thomson Digital	СТО	05-08-2019	both	reNew	View Certificate
115	102170	Mayell & Fraser Pvt Ltd	СТО	02-08-2019	both	reNew	View Certificate
116	94118	NORKHILL HOTEL	СТО	27-07-2019	both	reNew	View Certificate
117	95234	FOOD COURT RESTAURANT	СТО	26-07-2019	both	reNew	View Certificate
118	83291	Sikkim Pvt Ltd)	СТО	14-06-2019	both	reNew	View Certificate
119	74019	Aristo Pharmaceuticals Pvt. Ltd	СТО	25-06-2019	both	reNew	View Certificate
120	63901	RSM INFRAPROJECTS	СТО	22-06-2019	both	reNew	View Certificate
121	50728	Aristo Pharmaceuticals Pvt.Ltd.	СТО	21-06-2019	both	reNew	View Certificate
122	52906	Indian Oil Corporation Limited	СТО	20-06-2019	both	reNew	View Certificate
123	79372	DG Set	СТО	14-06-2019	both	reNew	View Certificate
124	53260	Pvt Ltd Unit-II	СТО	12-06-2019	both	reNew	View Certificate
125	53144	RANGPO DEPOT, IOCL (MD)	СТО	01-06-2019	both	reNew	View Certificate
126	53125	RANGPO DEPOT, IOCL (MD)	сто	30-05-2019	both	reNew	View Certificate
127	55607	INFRASTRUCTURE LIMITED	сто	27-05-2019	both	reNew	View Certificate
128	77719	Mayel Lyang Residency	СТО	21-05-2019	both	reNew	View Certificate
129	83463	Hotel Alaya	СТО	21-05-2019	both	reNew	View Certificate
130	55614	INFRASTRUCTURE LIMITED	СТО	13-05-2019	both	reNew	View Certificate
131	80970	SAVI HEALTH SCIENCE	сто	09-05-2019	both	new	View Certificate
132	62862	LTD., SIKKIM	СТО	29-03-2019	both	reNew	View Certificate
133	56777	SUN PACKMET PVT LTD	СТО	28-03-2019	both	reNew	View Certificate
134	94622	Cipla Limited	сто	09-07-2019	both	reNew	View Certificate
135	57095	DELISSO ABODE	сто	26-06-2019	both	reNew	View Certificate
136	52308	marc lifesciences sikkim	СТО	01-10-2019	both	reNew	View Certificate
137	95638	Metro's	СТО	25-09-2019	both	reNew	View Certificate
138	64449	CARE	СТО	28-03-2019	both	reNew	View Certificate
139	107415	Titan Company Limited	СТО	13-09-2019	both	new	View Certificate
140	94574	Agarwal Infra. Pvt. Ltd.	СТО	02-07-2019	both	reNew	View Certificate
141	51730	LIMITED	сто	02-09-2019	both	reNew	View Certificate
142	103631	service centre.	СТО	16-08-2019	both	reNew	View Certificate
143	83400	Sundar Hotel and Resort	СТО	30-05-2019	both	reNew	View Certificate
144	72284	DOBARI STONE CRYSTAL PLANT	СТО	29-05-2019	both	reNew	View Certificate
145	67562	unit ii	СТО	24-06-2019	both	reNew	View Certificate
146	88012	UPPER SICHEY MM RASAILY	СТО	19-06-2019	both	reNew	View Certificate
146	55108	Titan Company Limited	СТО	25-03-2019	both	reNew	View Certificate
147	92080	SAVI HEALTH SCIENCE	СТО	08-07-2019	both	reNew	View Certificate
	54525	Zydus Healthcare Limited	СТО	09-07-2019	both	reNew	
149	86996	Zydus Healthcare Limited	СТО	21-06-2019	both	reNew	View Certificate
150	89721	Ms Pravesh Enterprise	СТО	15-06-2019	both	reNew	View Certificate
151				25-04-2019			View Certificate
152	66486	Unit-III	СТО		both	reNew	View Certificate
153	54382	LTD. UNIT- I	СТО	17-06-2019	both	reNew	View Certificate
154	51040	LTD Waits finals	СТО	09-07-2019	both	reNew	View Certificate
155	95377	Kajla fuels	СТО	09-07-2019	both	reNew	View Certificate
156	92944	(UNIT-II)	СТО	28-06-2019	both	new	View Certificate
157	51651	LIMITED.	СТО	09-05-2019	both	reNew	View Certificate

158	61648	Indian Oil Corporation Limited	СТО	20-03-2019	both	reNew	View Certificate
159	62440	Gungun Poly Print	СТО	23-03-2019	both	reNew	View Certificate
160	52753	Titan Company Limited	СТО	26-03-2019	both	reNew	View Certificate
161	54531	Zydus Healthcare Limited	СТО	01-04-2019	both	reNew	View Certificate
162	63971	Royal Demazong Resort	СТО	08-04-2019	both	reNew	View Certificate
163	50187	Unit III	СТО	22-04-2019	both	reNew	View Certificate
164	64351	THE GOLDEN CREST	СТО	01-05-2019	both	reNew	View Certificate
165	82791	Mani Kumar Biswakarma	СТО	30-05-2019	both	reNew	View Certificate
166	81441	Pvt ltd	СТО	24-06-2019	both	reNew	View Certificate
167	81430	Pvt Ltd Unit-II	СТО	24-06-2019	both	reNew	View Certificate
168	93051	<b>Stone Crusher</b>	СТО	27-06-2019	both	reNew	View Certificate
169	94486	HOTEL VAJRA RESIDENCY	СТО	02-07-2019	both	reNew	View Certificate
170	92621	SAVI HEALTH SCIENCE	СТО	08-07-2019	both	reNew	View Certificate
171	95382	Stone crusher	сто	06-08-2019	both	new	View Certificate
172	82836	maa jagdamba trading	СТО	12-06-2019	both	reNew	View Certificate
173	91783	Hotel kusum international	СТО	24-06-2019	both	reNew	View Certificate
174	80473	Coastal project limited	сто	07-05-2019	both	reNew	View Certificate
175	66243	GOLDEN CRESCENT	СТО	28-03-2019	both	reNew	View Certificate
176	65714	MALL ROAD RESIDENCY	СТО	01-05-2019	both	reNew	View Certificate
177	85352	Stone Crusher	СТО	31-05-2019	both	reNew	View Certificate
178	78241	Sawney Stone Crusher Unit	сто	22-05-2019	both	reNew	View Certificate
179	88742	stone crusher	СТО	18-07-2019	both	reNew	View Certificate
180	94978	Cipla Limited (Unit II)	СТО	04-07-2019	both	reNew	View Certificate
181	69158	Alkem Laboratories Limited	СТО	25-06-2019	both	reNew	View Certificate
182	56963	SUNCARE	СТО	27-03-2019	both	reNew	View Certificate
	57024	SUN CARE	СТО	27-03-2019	both	reNew	
183	76801	Hot Mix Plant	СТО	05-07-2019	both	reNew	View Certificate
184	50483		СТО		both		View Certificate
185	88782	Limited, Sikkim	СТО	22-04-2019	both	reNew	View Certificate
186	54637	hot mix/wet mix		18-07-2019	both	reNew	View Certificate
187		Alkem Laboratories Ltd	СТО	11-05-2019		reNew	View Certificate
188	80491	HOTMIX	СТО	07-05-2019	both	reNew	View Certificate
189	94080	GOLDENCROSS PHARMA LTD	СТО	02-07-2019	both	reNew	View Certificate
190	76327	BFPL INC	СТО	19-06-2019	both	reNew	View Certificate
191	87655	Tashu engineering workshop	СТО	06-06-2019	both	reNew	View Certificate
192	83434	DOLOMITES	СТО	06-06-2019	both	reNew	View Certificate
193	51910	DENZONG ALBREW PVT. LTD.	СТО	22-05-2019	both	reNew	View Certificate
194	83004	Stone Crusher	СТО	17-05-2019	both	reNew	View Certificate
195	83033	Stone Crusher	СТО	16-05-2019	both	reNew	View Certificate
196	71270	Zuventus Healthcare Limited	СТО	06-05-2019	both	reNew	View Certificate
197	62065	The Royal Demazong Resort	СТО	05-04-2019	both	reNew	View Certificate
198	51595	Cipla Limited (Unit II)	СТО	19-06-2019	both	reNew	View Certificate
199	51103	Limited	СТО	04-04-2019	both	reNew	View Certificate
200	76797	Summit Denzong Renaissance	СТО	28-06-2019	both	reNew	View Certificate
201	63375	LIMITED	СТО	17-05-2019	both	reNew	View Certificate
202	51078	LIMITED , Unit-II	СТО	06-05-2019	both	reNew	View Certificate
203	57730	PVT LTD	СТО	27-06-2019	both	reNew	View Certificate
204	78006	Lupin Limited	СТО	20-05-2019	both	reNew	View Certificate
205	50597	<b>Torrent Pharmaceuticals Limited</b>	СТО	10-05-2019	both	reNew	View Certificate
206	78378	THE ROYAL PLAZA HOTEL	СТО	09-05-2019	both	reNew	View Certificate
207	62539	LUPIN LIMITED	СТО	07-05-2019	both	reNew	View Certificate
208	52454	LTD. Unit - I	СТО	05-04-2019	both	reNew	View Certificate
209	56960	SUN PACKMET PVT LTD	СТО	30-03-2019	both	reNew	View Certificate
210	58537	TEXIMCO FOILS PVT LTD	СТО	26-03-2019	both	reNew	View Certificate

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211	66986	DHEBENDRA SUBBA	СТО	02-04-2019	both	reNew	View Certificate
212	50928	Limited	СТО	04-04-2019	both	reNew	View Certificate
213	50563	Unit-II	СТО	22-04-2019	both	reNew	View Certificate
214	68686	Suryodaya Industries	СТО	25-04-2019	both	reNew	View Certificate
215	50954	LIMITED , Unit-II	СТО	06-05-2019	both	reNew	View Certificate
216	80379	Hotel Down Town	СТО	06-05-2019	both	reNew	View Certificate
217	53079	DG	СТО	23-03-2019	both	reNew	View Certificate
218	50794	Intas Pharmaceuticals Limited	СТО	20-03-2019	both	reNew	View Certificate
219	71334	M/S DZONGRI PETROL PUMP	СТО	20-04-2019	both	reNew	View Certificate
220	54514	Zydus Healthcare Limited	СТО	01-04-2019	both	reNew	View Certificate
221	65369	LTD.	СТО	29-03-2019	both	reNew	View Certificate
222	51800	Zydus Healthcare Limited	СТО	28-03-2019	both	reNew	View Certificate
223	54986	(Unit-1)	СТО	28-03-2019	both	reNew	View Certificate
224	59542	DG)	СТО	27-03-2019	both	reNew	View Certificate
225	55811	TEXIMCO FOILS PVT LTD	СТО	26-03-2019	both	reNew	View Certificate
226	58604	Jewelers	СТО	19-03-2019	both	reNew	View Certificate
227	61178	SKIPPING STONES PVT. LTD.	СТО	22-03-2019	both	reNew	View Certificate
228	67252	tashiling residency	СТО	29-03-2019	both	reNew	View Certificate
229	88055	Hotel Crown De-La-Cruz	СТО	07-06-2019	both	reNew	View Certificate
230	80867	(Sikkim) Pvt. Ltd.	СТО	10-05-2019	both	reNew	View Certificate
231	80353	(Sikkim) Pvt. Ltd.	СТО	10-05-2019	both	reNew	View Certificate
232	52728	BROTHERS GUEST HOUSE	СТО	05-03-2019	both	reNew	View Certificate
233	66182	GOLDEN CRESCENT	СТО	28-03-2019	both	reNew	View Certificate
234	80317	Blue Star Hotel	СТО	06-05-2019	both	reNew	View Certificate
235	63073	LIMITED	СТО	25-03-2019	both	reNew	View Certificate
236	51532	Unit 2	СТО	23-03-2019	both	reNew	View Certificate
237	56008	V-Guard Industries Ltd - Unit 1	СТО	28-03-2019	both	reNew	View Certificate
238	64020	Hotel Suprabhatam	СТО	26-03-2019	both	reNew	View Certificate
239	66996	Tashiling Residency	СТО	04-06-2019	both	reNew	View Certificate
240	56917	LIMITED	СТО	28-03-2019	both	reNew	View Certificate
241	52022	TEST 1	СТО	23-04-2019	both	new	View Certificate

### SIKKIM

# GOVERNMENT



GAZETTE

### EXTRAORDINARY PUBLISHED BY AUTHORITY

Gangtok

Wednesday 5th October,

No. 381

GOVERNMENT OF SIKKIM HEALTH CARE, HUMAN SERVICES & FAMILY WELFARE DEPARTMENT GANGTOK-737101

No: 49/HC, HS&FW

Dated: 26/09/2016

### NOTIFICATION

In exercise of the powers conferred by rule 11 of the Bio-Medical Waste (Management and Handling) Rules 2016 and in supersession of notification number 5/H & FW dated 17/7/2000 the State Government hereby re- constitutes an Advisory Committee consisting of the following members namely:-

1.	DG cum Secretary, Health Care, Human Service and Family Welfare Department.	Chairman	
2.	Principal Director Health Services	Member Secretary	
3.	Special Secretary, Urban Development and Housing Department	Member	
4.	Director, Animal Husbandry and Veterinary Services	Member	
5.	Chief Engineer, Public Health Engineering Department	Member	
6.	Member Secretary, State Pollution Control Board	Member	
7.	Chief Municipal Commissioner	Member	
8.	Representative - Sikkim Medical Association	Member	
9.	Representative - Voluntary Health Association of Sikkim	Member	

DR. K. BHANDARI, DM DIRECTOR GENERAL CUM SECRETARY TO THE GOVERNMENT OF SIKKIM HEALTH CARE, HUMAN SERVICES & FAMILY WELFARE DEPARTMENT

### SIKKIM



### GAZETTE

### GOVERNMENT

EXTRAORDINARY PUBLISHED BY AUTHORITY

Gangtok

1 121

Wednesday 26th September, 2018

No. 514

GOVERNMENT OF SIKKIM
HEALTH CARE, HUMAN SERVICES & FAMILY WELFARE DEPARTMENT

No. 101/HC, HS&FW

Dated: 25.09.2018

#### NOTIFICATION

In exercise of the powers conferred by sub-rule (4) and (6) of rule 12 of the Bio-Medical Waste Management Rules 2016, the State Government hereby constitutes the District Level Monitoring Committee in the Districts to monitor the compliance of the provision of these rules in the health care facilities generating Bio-Medical waste and in the common bio-medical waste treatment and disposal facilities where the Bio-medical waste is treated and disposed of, consisting of the following members namely:-

- District-Collector (East/West/South/North)
- Divisional Engineer Water Security & PHED (East/West/South/North)
- 3. Municipal Councillor (East/West/South/North)
- Representative State Medical Association (East/West/South/North)
- 5. Representative NGO (East/West/South/North)
- 6 Representative State Pollution Control Board (East/West/South/North)
- District Medical Superintendent (East/West/South/North)

- Chairman
  - Member
  - Member
- Member
- Member
- Member
  - Member Secretary

VISHAL CHAUHAN, IAS
COMMISSIONER CUM SECRETARY TO THE GOVERNMENT OF SIKKIM
HEALTH CARE HUMAN SERVICES & FAMILY WELFARE

S.G.P.G. - 514/ Com. 6/Gazette /100 Nos./ Dt:- 26.09.2018.

### <sup>1</sup>[SCHEDULE VII]

[See Rule 3(3B)]

### NATIONAL AMBIENT AIR QUALITY STANDARDS

S. No.	Pollutant	Time Weighted	Concentration in Ambient Air			
(PSS):		Average	Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Government)	Methods of Measurement	
(1)	(2)	(3)	. (4)	(5)	(6)	
J	Sulphur Dioxide (SO <sub>2</sub> ), μg/m <sup>3</sup>	Annual* 24 hours**	80	20 80	- Improved West and Gaeke - Ultraviolet fluorescence	
3/	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual* 24 hours**	40 80	30 80	- Modified Jacob & Hochheiser (Na- Arsenite) -Chemiluminescence	
3/	Particulate Matter (size less	Annual*	60	60	- Gravimetric - TOEM	
	than 10µm) or PM <sub>10</sub> µg/m <sup>3</sup>	24 hours**	- (- 100	100	- Beta attenuation	
4	Particulate Matter (size less than 2.5µm) or PM <sub>2.5</sub> µg/m <sup>3</sup>	Annual* 24 hours**	40 - 1 - 1 - 60 - 1 - 60 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	60	- Gravimetric - TOEM - Beta attenuation	
5	Ozone (O <sub>3</sub> ) µg/m <sup>3</sup>	8 hours** 1 hour**	180	180	- UV photometric - Chemilminescence - Chemical Method	
6	Lead (Pb) μg/m <sup>3</sup>	Annual*	0.50	0.50	- AAS /ICP method	
		24 hours**	1.0	1.0	after sampling on EPM 2000 or equivalent filter paper - ED-XRF using Teflon filter	
7	Carbon Monoxide (CO) mg/m³	8 hours** 1 hour**	02	02 04	- Non Dispersive Infra Red (NDIR) spectroscopy	
8	Ammonia (NH <sub>3</sub> ) μg/m <sup>3</sup>	Annual* 24 hours**	100 400	100 400	- Chemiluminescence - Indophenol blue method	

Substituted by Rule 3 of the Environment (Protection) Seventh Amendment Rules, 2009 notified by G.S.R. 826 (E) dated 16.11.2009.

### SIKKIM



### GAZETTE

# GOVERNMENT

# EXTRAORDINARY PUBLISHED BY AUTHORITY

Gangtok

Tuesday

16th April, 2019

No. 167

STATE POLLUTION CONTROL BOARD-SIKKIM
FORESTS, ENVIRONMENT & WILDLIFE MANAGEMENT DEPARTMENT
GOVERNMENT OF SIKKIM
DEORALI - GANGTOK -737102

No. 63/SPCB

Dated: 6.4.2019

### NOTIFICATION

WHEREAS, Article 48A of the Constitution of India, inter-alia envisages that the State shall endeavour to protect and improve the natural environment for safeguarding human being, wildlife including all living creatures, forests, lakes, rivers etc.;

AND WHEREAS, the Government of Sikkim after considering the adverse effects of Plaster of Paris (PoP), baked clay, synthetic, non-biodegradable items etc. which are used for making idols, on the environment and local ecology felt that these have detrimental effect on the environment;

AND WHEREAS, it is observed that the Synthetic/Plastic colour used for painting of idols, puja pandal and decoration purpose comes down to the water bodies and soil thereby causing water pollution as well as soil pollution resulting in unhygienic environmental and public health related problems, and degrade the natural quality of soil;

AND WHEREAS, it is observed that Plaster of Paris. Synthetic/Plastic Colour, are non-biodegradable and after long time break to toxic plastic particles polluting soil; produce toxic gases and ash while burning:

AND WHEREAS, it is observed that the Plaster of Paris, Synthetic/Plastic Colour and other non-biodegradable items cause aquatic and terrestrial animals to die by ingestion, their contaminate soil and water: they choke the living organisms of the soil etc. causing harmful effects on the environment;

AND WHEREAS, Plaster of Paris, Synthetic/Plastic Colour and other non-biodegradable items adversely affect percolation of water to ground levels, hamper the quality of soil layer and on ecology and environment;

(4)

AND WHEREAS, in compliance with the Judgement dated 06.10.2017 passed by National Green Tribunal, Eastern Zone Bench, Kolkata in Original Application No. 51/2016/EZ (Ambar Nath Sengupta Vrs. State of West Bengal & Others), the State Government has deemed it necessary to impose complete ban on the use of Plaster of Paris and Synthetic/Plastic Colour and other non-biodegradable items for making idols, decoration of pandal etc. in the whole state;

Now, therefore, with a view to achieve the above objectives and in exercise of the power conferred by section 64 of the Water (Prevention and Control of Pollution) Act, 1974, the State Government hereby makes the following rules, namely:-

Short title, extent and commencement

- 1. (1) These rules may be called the Sikkim Idol Immersion Rules, 2019.
  - (2) They shall extend to the whole of Sikkim.
  - (3) They shall come into force on the date of their publication in the Official Gazette.

Definition

- In these rules, unless the context otherwise requires:-
  - (a) "Act" means the Water (Prevention and Control of Pollution) Act, 1974;
  - (b) "bio-degradable waste" means any organic matter which decomposes on its own in environment by micro-organisms and other living things which includes flower, leaves, paper etc.;
  - (c) "Block Development Officer" means the Block Development Officer designated by the State Government;
  - (d) "idol user" means and includes any puja committee, religious organization or individual who procures idol or idols for worship within their institution or house;
  - (e) "idol maker" means and includes those persons who make idols as well as those persons who paint the idol;
  - (f) "Local Authority" or "Local Body" means a Municipal Corporation, Municipal or Panchayat within whose territorial jurisdiction an Idol user or idol maker used, displayed or made idols;
  - (g) "Non-biodegradable item" means any material or items which are not biodegradable which are not capable of being destroyed by an action of living beings, which includes plastics, metals, plaster of paris, paints etc. which are used in the manufacture or covering of an idol;
  - (h) "Puja Pandal" means any shed or any structure housing the idol and within which such event is organized.
  - "Sub-Divisional Magistrate" means the Sub-Divisional Magistrate designated by the State Government;
  - (j) "super structure" means huge manmade temporary shed or enclosure constructed using iron scaffolding or bamboos etc. for organizing such events;
  - (k) "toxic heavy metals" means any poisonous or very harmful metals such as mercury, cadmium, arsenic, lead and chromium etc.

## rohibition of nonbiodegradable items

- No idol user/idol maker etc. shall use Plaster of Paris for making idol.
  - (2) No Puja Committee or organizations or individual shall use Synthetic/Plastic Colour for painting of idols and other decoration purpose including the puja pandal in any festival.
  - (3) Sub-Divisional Magistrate/Block Development Officer (BDO) shall constitute a Co-ordination Committee under his /her chairmanship comprising the members from Police, Non-Government Organizations, Local Authorities, representative of Puja Committees, Stakeholders etc. for effective monitoring and control of pollution in his or her jurisdiction. He/she may co-opt any other official/individual as he/she deems fit.
  - (4) Non-biodegradable items are strictly prohibited for making idols and pandal decoration in any festival.
  - (5) The height of the super structure shall be less than 30 ft. and the idol shall not exceed 10 ft. in height.
  - (6) All puja committees or individuals of organization shall submit a declaration before the Local Bodies specifying that in the making of idols and raising super structure stating that;-
    - (a) no Plaster of Paris (PoP) has been used;
    - (b) no synthetic paint or colour containing toxic heavy metals has been used;
    - (c) the height of idol is less than 10 ft.;
    - (d) the height of the super structure is less than 30 ft.
  - (7) Local Bodies shall submit copies of all declarations received in this regard to the State Pollution Control Board-Sikkim.
- (8) Both the local bodies and State Pollution Control Board-Sikkim shall make surprise inspection and impose penalty/prohibition from organizing festival in future, either temporarily or permanently as per the provision of the Act and rules in case any violation is
- (9) A suitable idol immersion spot along the river bank shall be created and notified by the local authority.
- (10) The biodegradable materials should be removed before immersion and the concerned local bodies/organization/NGO or any individual may use these materials for composting and other useful purpose.
- (11) The biodegradable wastes/materials generated from temple or house of worship everyday should not be allowed to dispose off to water bodies. Disposal of such biodegradable wastes to water bodies will invite penalty to be imposed by the local authorities on the temple committee.
- (12) The Guidelines dated 18.06.2010 framed by Central Pollution Control Board (CPCB) regarding Idol Immersion and subsequent amended guidelines as issued from time to time in this regard shall strictly be applicable in the State.

- 3 -

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## Responsibilities of the Idol makers

. Idol Makers and its users shall abide by the following:-

- (1) Idol shall be made by using natural and biodegradable items like:clay, bamboo, jute thread, straw etc.
- (2) No plaster of Paris (PoP), baked clay, synthetic, non-biodegradable items shall be used for making idols.
- (3) The height of idol must be limited/restricted within 10 ft.
- (4) No synthetic paint or colour containing toxic heavy metals like mercury, cadmium, arsenic, lead and chromium shall be used.
- (5) natural colour shall be used for painting of idols & other decoration purpose.
- (6) The height of the super structure shall be limited/restricted within 30 ft.
- (7) All Puja Committees or individual or organizations shall submit a declaration before the Local Bodies, as the case may be, specifying that in the making of idols and raising super structure all the above stated conditions from sl.no.(1) to sl.no. (6) have been complied with.

## Responsibilities 5 of the Local Bodies

Local Bodies shall abide by the following:-

- (1) Local Bodies shall specify and ensure that in making and use of idols and its super structure the limitations are complied with.
- (2) They shall be responsible to submit the copies of all declaration received in this regard to the State Pollution Control Board (SPCB-Sikkim).
- (3) They shall be responsible for disposal of the wastes as per the Central Pollution Control Board (CPCB) Guidelines dated 18.06.2010 and other related rules existing in this regard.
- (4) They shall make surprise inspection and impose penalty/prohibition from organizing festival in future, either temporarily or permanently as per the provision of the Act and the rules in case any violation is detected.

## Responsibilities of the State Pollution Control Board

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The State Pollution Control Board-Sikkim (SPCB-Sikkim) shall abide by the following:-

- (1) The State Pollution Control Board (SPCB-Sikkim) shall collect all declarations from the Local Bodies which are received by them from the Organizer(s).
- (2) The State Pollution Control Board (SPCB-Sikkim) shall make surprise inspection and impose penalty/prohibition from organizing festival in future, either temporarily or permanently as per rules in case any violation is detected.
- (3) The State Pollution Control Board (SPCB-Sikkim) shall conduct water quality assessment at pre-immersion, during immersion and post immersion as mentioned in the Central Pollution Control Board Guidelines dated 18,06,2010.



The State Pollution Control Board (SPCB-Sikkim) shall prepare materials for mass awareness to the common people.

Penalty

100

Any idol user or idol maker who violates the provisions of these rules shall be punished under the provision of section 45 A of the Water (Prevention and Control of Pollution) Act, 1974.

Uses of Penalty 8 Amount collected as "Pollution Cost"

7

9

The environmental compensation collected in this regard shall be utilized by the local authority for restoration of the damages/for development / up-gradation of ecology and environment of the surrounding with an intimation to the State Pollution Control Board (SPCB-Sikkim).

Authorized Officers

The following officers shall be authorized to implement this notification in their respective jurisdiction namely:

- Member Secretary, State Pollution Control Board (SPCB-Sikkim) and Officers at the level of Assistant Environmental Engineer/ Assistant Scientific Officer and above in the whole State.
- Municipal Commissioner, Gangtok, Municipal Corporation, Gangtok and other Officers nominated by him by notification.
- District Magistrate and Collectors of all respective Districts of
- Superintendent of Police, Sub Divisional Police Officer and Officers at the level of Sub-Inspector of Police and above.
- Divisional Forest Officers (DFOs) and Assistant Conservator of Forests (ACFs) and Range Officers (ROs).
- Sub-Divisional Magistrates of all respective Sub-Divisions in
- Block Development Officers of all respective Blocks in Sikkim. (7)
- Chief Executive Officers of all Municipal Councils in Sikkim.
- Executive Officers of all respective Nagar Panchayats in Sikkim.
- (10) Municipal Executive Officers of all respective districts in Sikkim.

M.L. Srivastava, IFS PCCF-cum-Principal Secretary Forests, Env. & Wildlife Management Department Government of Sikkim.























































