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STATE POLLUTION CONTROL BOARD-SIKKIM

FOREST & ENVIRONMENT DEPARTMENT

GOVERNMENT OF SIKKIM

DEORALI, GANGTOK - 737102

F. No. 1026/SPCB/ 2116 & 2117

Dated: 23/01/2023

To,

The Executive Director (Technical),
National Mission for Clean Ganga,
Department of Water Resources,
River Development & Ganga Rejuvenation
Ministry of Jal Shakti,
Major Dhayan Chand National Stadium,
India Gate, New Delhi-110002.

Sub: Monthly Progress Report for the Month of December, 2022 as per the direction of Hon'ble NGT in the matter of O.A No. 673/2018 dated 06/12/2019.

Sir,

I have been directed to forward herewith monthly progress report for the month of Decemeber, 2022 with respect to the state of Sikkim as per the above cited subject.

Submitted for kind information and onward process please.

Thanking you

Yours faithfully,

(B. K. Chettri)

Chief Scientific Officer

State Pollution Control Board-Sikkim

Bindev Kumar Chettri

Chief Scientific officer

State Pollution Control Board

Forest & Environment Deptt.

Govt of Sikkim

Copy to:

1. Shri A Sudhakar, DH, WQM-I Division, Arjun Nagar Delhi for kind information please.



National Mission for Clean Ganga
Format for submission of Monthly Progress Report in the NGT Matter O.A.
No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)
For the State of Sikkim
Month – December, 2022.

Overall status of the State:

- I. **Total Population:** a) Urban Population - 153,578 (Census of India, 2011)
1.74 lakhs (UIDAI data, May, 2020)
b) Rural Population - 456,999 (Census of India, 2011)
5.16 lakhs (UIDAI data, May, 2020)

II. Estimated Sewage Generation (MLD):

- a) Urban – 18.79 MLD (assuming LPCD water supply. Information provided by PHE Dept., Govt. of Sikkim)
b) Rural – 28.89 MLD (assuming LPCD water supply. Information provided by PHE Dept., Govt. of Sikkim)

III. Details of Sewage Treatment Plant:

- a) Existing no. of STPs and Treatment Capacity (in MLD):

Sl. No.	Town/Location	Capacity (MLD)
1.	Gangtok Zone I, Adampool	8.0
2.	Gangtok Zone I, Adampool	4.69
3.	Gangtok Zone I, Ranipool	1.27
4.	Gangtok Zone IV, Lower Sichey	3.90
5.	Singtam	0.66
6.	Melli	0.50
7.	SMIT, Majhitar (private facility)	0.48
8.	Rangpo	1.40

9.	Gangtok Zone II, Lower Syari	1.60
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- b) **Capacity Utilization of existing STPs:** update awaited from the department after household connectivity of STPs located at Rangpo and Gangtok Zone II is completed.
- c) **MLD of sewage being treated through Alternate technology:** Nil
- d) **Gap in Treatment Capacity in MLD:** The total capacity of STPs located in urban areas is 22.02 MLD currently. There treatment capacity is currently higher than the sewage generation i.e. 18.79 MLD.

In rural areas, the gap in treatment capacity is 28.89 MLD. However most households do have individual septic tank connectivity to ensure untreated sewage is not discharged into the open. In implementation of Swacch Bharat Mission Gramin Phase II, installation of septic tanks for individual households in 64 villages is under process. Households are also being encouraged to retrofit existing single pit septic tanks to twin pit model. 3550 soak pits have been constructed in order to treat grey water in rural area as per land availability.

Work order to renovate STPs in Gangtok and extension of sewer network to uncovered areas in Gangtok has commenced. The STPs under that are currently undergoing construction as well as proposed STPs shall also cater to the rural areas wherever feasible. Domestic Sewage management has been included in State & District Environment Plans, which has been approved by the State Government and the same is available at <http://www.sikkimforest.gov.in/index.html>. In addition, preparation of new district plans as per the newly formed districts mainly, Gangtok, Geyzing, Pakyong, Soreng, Mangan & Namchi have been intimated to the District Magistrates/Collectors. Annual conferences for periodic revision and updation of DEP for Gangtok District was held on 28/07/2022.

In the matter of O.A. 606/2018 before the Hon'ble National Green Tribunal compliance of Municipal Solid Waste Management Rules, 2016, the hearing took place on 03/11/2022 and the state was issued directions to comply to the directions of the order dated 03/11/2022 and file verifiable compliance within period of six (6) months. Environmental Compensation was not levied on the State of Sikkim.

The Rural Development Department, GoS conducted “State Level Workshop on Faecal Sludge and Liquid Waste Management Strategy for Sikkim” for all line departments on 14/12/2022. The workshop was conducted to impart knowledge in order to ensure necessary compliance to the directions of the Hon’ble NGT.

The old STP of capacity 5 MLD at Adampool has been re-commissioned to act as pre-treatment cum holding tank. Diversion line is being laid down from Zone IV STP at lower to Zone I to also act as holding tank for Zone IV.

Notification has been issued by the PHE Department, GoS to inform the public to not utilize the river water for drinking purposes at the proximity of 300m of the STPs.

e) **No. of Operational STPs:**9

f) **No. of Complying STPs:** 9

g) **No. of Non-complying STPs:** nil

Details of each existing STP in the State

Sl. No.	Location	Existing STP Capacity MLD	Capacity Being Utilized (%)	Operational Status of STP	Compliance Status of STP
1.	Gangtok Zone I, Adampool	8.0	90	1.Operational	Compliant.
2.	Gangtok Zone I, Adampool	4.69		2. Rehabilitation & extension work proposed under NRCP has commenced 3. Work for construction of holding tanks/ alternate treatment capacity of 5 MLD is in progress at	

				Adampool STP complex. Physical progress 48%. 4. Work mentioned at Sl. No. 2 & 3 to be completed by November, 2024 5. Alternatively, work to divert flow of STPs for Zone IV to Zone I STP complex at Adampool has commenced to cater in case of breakdown or during Maintenance of STP	
3.	Gangtok Zone I, Ranipool	1.27	85	Operational	Compliant
4.	Gangtok Zone IV, Lower Sichey	3.90	85	Operational. Rehabilitation work for STP has been tendered and holding tanks has been proposed to facilitate plant maintenance. Physical progress 30%	Compliant

5.	Singtam	0.66	80	Operational	Compliant
6.	Melli	0.50	80	Operational. Renovation & rehabilitation work completed	Compliant
7.	SMIT, Majhitar (private facility)	0.48	70	Operational	Compliant
8.	Rangpo	1.40	NA	Operational. Dry & wet run completed and ready to receive load. Full commission of the system under process. Physical progress 10%	Compliant
9.	Gangtok Zone II, Lower Syari	1.60	NA	Process for house connection has started .Physical progress 18%	Compliant

Note: As per the information received from PHE Department, GoS vide Ref. No. SEW(SE) PHED/872/420 dated 13/09/2022, the status of OCEMS in STPs are as follows

Sl. N.	Town/location	Capacity(MLD)	Status
1.	Gangtok Zone I, Adampool	8.0	Installation completed
2.	Gangtok Zone I, Adampool	4.69	Installation completed
3.	Gangtok Zone I,	1.27	Installation under process

	Ranipool		
4.	Gangtok Zone II, Lower Syari	1.6	Installation under process
5.	Gangtok Zone IV, Lower Sichey	3.9	Installation completed
6.	Singtam	0.66	Proposal under process
7.	Melli	0.5	Proposal under process
8.	Rangpo	1.4	Proposal under process

Details of under construction STPs in the State

Sl. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1.	Gangtok Zone III, Tathangchen	3.25	72.4	Work delayed due to land acquisition formalities and civil suit regarding ownership of part of the land acquired for STP. Excavation work has been prohibited in the state during monsoon season of June to August.	December 2023

Details of proposed STPs in the State

Sl. No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
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1.	Namchi	3.63	Process for land acquisition for construction of STP underway	December 2023
2.	Jorethang	1.6	Process for Stage I Forest clearance completed. Stage II under process	December 2023
3.	Geyzing	1.80	Proposal has been sanctioned under NRCP, MoJS in September, 2022	2028
4.	Rabong	1.50	DPR completed	2028
5.	Soreng	1.0	Survey & investigation	2028
6.	Mangan	0.98	Proposal sanctioned under NRCP, MoJS, GoI	2025
7.	Chungthang	0.72	Proposal has been sanctioned under NRCP, MoJS in September, 2022	-

IV. Details of Industrial Pollution:

- **No. of industries in the State:** 463 nos. of industrial units were granted Consent to Establish and Operate (including renewal) by SPCB-Sikkim in the financial year 2021-2022.
- **No. of water polluting industries in the State:** 64
- **Quantity of effluent generated from the industries in MLD:** 2.66 MLD
- **Quantity of Hazardous Sludge generated from the industries in TPD:**
 1. 5.81 MT (incinerable)
 2. 0.128 MT (recyclable)
- **Number of industrial units having ETPs:** 64

- **Number of industrial units connected to CETPs:** nil
- **Number and total capacity of ETPs (details of existing/ under construction / proposed)**
 - a) Total no. – 64
 - b) Capacity – 3.405 MLD
 - c) Under construction/proposed – 1 (0.02 MLD) – installation completed OCEMS connectivity pending as the unit is not in operation
- **Compliance status of the ETPs:** compliant
- **Number and total capacity of CETPs (details of existing/ under construction / proposed) - nil**
- **Status of compliance and operation of the CETPs**

Town	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
No CETPs has been established in the state of Sikkim.				

V. Solid Waste Management:

- **Total number of Urban Local Bodies and their Population:** 7 nos.
Population - 147695
1.74 lakhs (UIDAI data, May, 2020)
- **Current Municipal Solid Waste Generation :** 65.5 TPD (2021-22 Annual report)
- **Number, installed capacity and utilization of existing MSW processing facilities in TPD (bifurcated by type of processing eg- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio-methanation, MRF etc:**
 - a) 50 TPD capacity compost plant installed at Martam Landfill ;
 - b) Organic Waste Converter at Lal Bazaar Vegetable Market- 1 ton per day capacity
 - c) 25 kg capacity Organic Waste Converter installed at Vegetable Market, Mangan Nagar Panchayat;

- d) PET bottles shredding machine having a capacity of 800-1000 bottles storage installed and inaugurated at Mangan Nagar Panchayat on 01/09/2021;
 - e) Bio-digester plant of capacity 7 KL installed at Gyalshing Nagar Panchayat;
 - f) Requisition for construction of new MRF centres have been received from all of the 07 ULBs and the proposal has been approved. Funds have been sanctioned and transferred to the ULBs;
 - g) 393 community compost pits have been constructed in rural areas.
 - h) Non-biodegradable waste collected in Resource Recovery Centres (RRCs) at block level and further segregated for recycling. 26 Blocks have constructed RRC.
 - i) At least one Plastic waste management unit for each Block is being planned and four are being installed.
- **Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%) –**
 - a) Public hearing for proposal of waste processing facility for North District was completed. Report has been prepared by SPCB-Sikkim and forwarded to SEIAA for review.
 - b) 18 NGOs have been selected as outsource groups for collection Solid waste for Gangtok Municipal Corporation.
 - c) Setting up of decentralized facilities viz. RRC/MRF in all ULBs are under progress.
 - d) Expression of Interest (EoI) for preparation of DPR and bid process for management of bio-remediation of legacy waste on build, operate and transfer basis has already been approved and the same has been published in various media platforms. 5 Proposals for the same have been received by the UDD, GoS and the selection of the firm is under process
 - e) Mass IEC activities like banners, quiz/essay competition, cleanliness drive, PSAs, advertisement through newspapers, radio jingles, animated videos, flash mob, etc. on municipal solid waste are being conducted at department and ULB level.
 - f) Meeting with District Officials has been held for setting up of solid waste facility in newly formed district, Pakyong.

- g) Selection & Inspection of land for construction of RRC/ MRF facility for Rangpo Nagar Panchayat (ULB) has been completed
- **No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction)** – nil. State Action plan for C&D waste under process for approval.
 - **Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source –**
 - a. Door to Door: 51 wards (100%)
 - b. Source segregation: 48 wards (94.33%)
 - **Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)** – Nil.
 - **No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills -** Nil
 - **No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers –** 5 Proposals for the same have been received by the UDD, GoS and the selection of the firm is under process
 - **No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers –** 11 in Gangtok. Wire mesh installed in all the 11 drains. Pre Monsoon cleaning of drains has been completed in Gangtok. The wire mesh from drains was removed as collection of water due to clogging of the drain would have resulted in slope failure.

Status of ULB wise Management of Solid Waste (as per SPCB-Sikkim annual report 2021-22)

ULB	Total MSW generation in TPD	Total MSW being processed in TPD*	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
Gangtok Municipal Corporation	46	13	1 (common for Singtam and Rangpo as well)	87927 cum	Nil

Gyalshing Municipal Council	1.9	0.4	1 (common landfill for Namchi & Nayabazar-Jorethang)	15000cum	Nil
Mangan Nagar Panchayat	1.00	0.5	1 (landfill)	Information not provided by the ULB	1 – Public hearing completed for setting up of MSW facility at Ringdang, Mangan District. Report prepared by SPCB has been forwarded to SEIAA.
Namchi Municipal Council	4.6	1.2	1(common landfill for Geyzing & Nayabazar-Jorethang)	15000cum	Nil
Rangpo Nagar Panchayat	4.5	0.7	1	Information not provided by the ULB	Nil

Singtam Nagar Panchayat	2.5	0.1	1	Information not provided by the ULB	Nil
Nayabazar-Jorethang Municipal Council	5.0	1.6	1(common landfill for Geyzing & Namchi)	15000cum	Nil

*Note: With regard to the total MSW processed, the figure denotes the waste processed in compost plants only. Recyclable waste such as plastic, glass, paper, aluminum foil is channelized to recyclers.

V. Bio-medical Waste Management:

- **Total Bio-medical generation:**438.15 kg/day (2021-22 annual report)
- **No. of Hospitals and HCFs who have been granted authorisation:** 283
- **Status of Treatment Facility/ CBMWTF:** captive treatment in all facilities.

VI. Hazardous Waste Management:

- **Total Hazardous Waste generation (2020-21 Annual Report):**
 1. 1744.28 Tonnes of incinerable Hazardous waste for the year 2021-22
 2. 38.53 MT of recyclable waste for the year 2020-21
- **No. of Industries generating Hazardous waste:** 49
- **Treatment Capacity of all TSDFs:** There are no TSDF in the state. All HW generated in the state is transported to Haldia, West Bengal for disposal. The SPCB-Sikkim has also granted permission to cement plants in Assam and Meghalaya for co-processing and Refineries in West Bengal for recycling.
- **Avg. Quantity of Hazardous waste reaching the TSDFs and Treated** –634.82 MT transported to Haldia for treatment & disposal, 1148.49 MT transported to cement plant in Assam for co-processing and 28.63 MT transported to West Bengal for recycling in the year 2021-22.

- **Details of on-going or proposed TSDF:** Selection of land for CHWTSDF is under process.

VII. Plastic Waste Management:

- **Total Plastic Waste generation:** 104.74 tonnes per annum (2021-22 annual report)
- **Treatment/ Measures adopted for reduction or management of plastic waste:**
 - i. The Govt. of Sikkim vide Gazette notification no. 145 dated 8th of July 1998 amended the Sikkim Trade License and Miscellaneous Provisions Rule 1985 wherein the use of plastic wrappers or bags for purchase of any goods or materials was prohibited.
 - ii. Fine mechanism is notified under state bye-laws and The Sikkim Non-Biodegradable Garbage (Control) Act, 1991. Also notification no. 344 dated 13/08/2019 has been notified for ban on sale and use of plastic having less than 50 micron thickness and single use plastic.
 - iii. 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.
 - iv. 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.
 - v. In addition, no application has been received by the SPCB-Sikkim till date for establishment of manufacturer of plastic bags.
 - vi. NOC has been granted to NGOs to collect domestic plastic waste and channelize to appropriate recyclers.
 - vii. Bins have been installed in the collection vehicles for separated collection of recyclable plastic by registered scrap collectors.
 - viii. Utilization of Plastic for road construction project has been initiated by NHIDCL in Rorathang area, Pakyong District. (Gangtok Municipal Corporation – 1101 kg, Namchi Municipal Council – 300 kg, Nayabazar-Jorethang Nagar Panchayat – 500 kg, Gyalshing Nagar Panchayat -312 kg)

- ix. SPCB-Sikkim is in receipt of application from seven brand owners for setting up collection facility in coordination with ULBs.
- x. SPCB-Sikkim has initiated registration of local plastic packaging brand owners for which market survey has started.
- xi. Directions have been issued to industries for registration of producers, importers and brand-owners under the Plastic waste Management Rules, 2016.
- xii. Compilation of registration of brand owners of single use plastic (SUP) is under process.
- xiii. Committee has been constituted for steering the modalities of carrying out field and market surveys for phasing out SUPs.
- xiv. State Level Task Force for elimination of SUPs and preparation of comprehensive action plan in mission mode has been constituted.
- xv. As per the directions of the CPCB vide F. No. B-17011/UPC-II-PWM(SUP)/2021/4212 dated 29/07/2021 the SPCB has conducted sensitization and capacity building programme for phasing out of SUPs to various stakeholders and councilors of ULBs.
- xvi. Awareness Programme for PIBO, Distributor, Whole seller & Waste Management Agency on Extended Producers Responsibility of Plastics was conducted by SPCB-Sikkim on 30/11/2021
- xvii. State-wide Plastic Waste Awareness Week from 6th to 12th March, 2022 was launched at Samman Bhawan on 5th March, 2022 by the Hon'ble Chief Minister of Sikkim Shri Prem Singh Tamang.
- xviii. Notice for prohibiting manufacture, import, stocking, distribution sale and use of SUP was brought out by SPCB on 10/03/2022 in local newspapers.
- xix. Notice brought out by SPCB on 10/03/2022 to inform all concerned that CPCB has setup an exclusive centralized portal for registration PIBOs and PWP in local newspapers.
- xx. SPCB-Sikkim, has distributed awareness material for phasing out Single Use Plastics in English Poster for all Govt. schools, Nepali Poster from all Govt. Offices, Stickers for all Govt. and Private Vehicle, Pamphlets for each household in the State, Banner for all district forest check post, and radio jingles and awareness video for Social media platform.

- xxi. The SPCB-Sikkim in association with Inner Wheel Club of Gangtok organized Women's Marathon on 27th March 2022 with a motto "I am Running to Say No To Single Use Plastic"
- xxii. Meeting held by SPCB-Sikkim and Department of Commerce and Industries, GoS for promotion of eco-friendly bags
- xxiii. Meeting of the sub-committee for phasing out of SUP conducted.
- xxiv. Meeting with newly elected councilors for implementation of Action Plan for phasing out of SUP conducted.
- xxv. Various Waste Management agencies have been approached By UDD, GoS for recycling of plastic waste under the EPR provisions.
- xxvi. Byelaws on Plastic waste Management for ULBs have been notified vide GoS Gazette No. 226 dated 07/06/2022
- xxvii. Action Plan on Plastic Waste Management for ULBs have been notified vide GoS Gazette No. 227 dated 07/06/2022
- xxviii. Public notice for prohibiting, production stocking, distribution, sale & used of SUPs have been issued by ULBS.
- xxix. Market inspection & confiscation of banned SUPs is being carried out by ULBs and state level.
- xxx. Self Help groups, NGOs, club/association etc are being involved in IEC regarding plastic waste management & SUP alternatives.
- xxxi. The SPCB-Sikkim conducted co-ordination meeting with UDD and ULBs regarding the prohibited SUPs on 06/06//2022.
- xxxii. Gangtok Municipal Corporation in coordination with SPCB-Sikkim and Urban Development Department conducted awareness campaign with the business community regarding the impending ban on SUP items on 16/06/2022.
- xxxiii. Meeting conducted with all enforcement authorities on 11/07/2022 viz DCs, SPs, SDMs, BDOs, MEOs of ULBs, UDD officials and RDD officials regarding SUP Compliance monitoring Portal and SUP Grievance App.
- xxxiv. SPCB-Sikkim established control room, helpline no for banned SUP items monitoring.
- xxxv. Daily report on SUP is being updated in the CPCB Monitoring Module for Compliance of SUP;
- xxxvi. As per the directions of the CPCB, weekly joint inspection of various ULBs is being conducted for enforcement of SUP ban.
- xxxvii. Meeting with Brand owners, PIBOs, Manufacturers, WMA regarding implementation w.r.t. EPR on Plastic Waste Management conducted on 03/12/2022;

VIII. Details of Alternate Treatment Technology being adopted by the State/UT: none

IX. Identification of polluting sources including drains contributing to river pollution and action as per NGT order on insitu treatment:

Inventorisation of non point sources such as Hotels & Commercial establishments under the directions of the Hon'ble NGT in the matter of O.A. 400/2017 Westland Green Farms Vs. Union of India & Ors which was taken up by SPCB has been completed. The inventory has been submitted to CPCB. The data submitted was for establishments that were open and operating during lockdown. The monitoring for remaining enterprises has been stalled due to resurgence of COVID-19 cases although the matter has been disposed off by the Tribunal. Respective licensing authorities have also been informed.

X. Details of Nodal Officer appointed by Chief Secretary in the State/UT:

Ms. Kusum Gurung, SFS, Joint Director cum Nodal Officer

SPCB-Sikkim & Environmental Monitoring Cell (Office of the Chief Secretary)

XI. Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT:

- i. Review meeting on O.A.606/2018 conducted on 01/12/2022;
- ii. Meeting with Brand owners, PIBOs, Manufacturers, WMA regarding implementation w.r.t. EPR on Plastic Waste Management conducted on 05/12/2022;
- iii. Meeting with PHE Department on O.A.606/2018 conducted on 06/12/2022;
- iv. Meeting on SWM and Legacy waste conducted on 21/12/2022

XII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river:

National Water Monitoring Programme data for December, 2022

Sl. No.	Parameters	River/Station Code			
		Chungthang-Teesta (1801)	Maneykhola (1803)	Ranichu (1806)	Rangit-Triveni (2034,2035,2036,2037,2038) - Average
1.	pH	7.1	6.9	6.9	7.1(approx)
2.	Conductivity $\mu\text{mhos/cm}$	145	139	177	174(approx)
3.	NO ₃ -N mg/l	1.9	2.2	2.4	2.6(approx)
4.	D.O. mg/l	9.0	8.7	8.2	8.4(approx)
5.	B.O.D. mg/l	2.4	2.7	2.5	2.5
6.	T. Coliform MPN/100ml	125	145	155	158(approx)
7.	F. Coliform MPN/100ml	73	95	101	96(approx)
8.	TSS mg/l	20	19	21	19(approx)
9.	TDS mg/l	19	20	22	18(approx)

Currently no bore well or ground water abstraction is practiced in any of the catchment area At the polluted river stretches.

XIII. Ground water regulation:

Utilization of ground water for domestic purposes is not practiced in the state. All industries that are abstracting ground water have been granted permission by Central Ground Water Authority. No new application for borewell has been received from any industrial unit. Guidelines for preparation of GIS based water conservation plans and inventory of water bodies in the districts under the Jal Shakti Abhiyan: Catch the Rain Campaign.(JSA:CTR) campaign has been forwarded to the concerned authorities for information & onward action.

SPCB-Sikkim has directed all industries abstracting ground water to conduct water quality analysis by NABL accredited laboratories on quarterly basis and submit the same to the Board.

Co-ordination meeting was held by RDD, GoS regarding survey of area where ground water abstraction is being practiced.

State Level Committee has been formed under PHED, GoS To monitor & regulate Ground water abstraction

XIV. Good irrigation practices being adopted by the State:

Utilization of ground water for agricultural purposes is not practiced in the state. DharaVikas or spring shed development under the Rural Development Department programme has been focusing on the dry areas for effective use of rain water. Water Resource Department is executing 156 Nos. of Surface Minor Irrigation (SMI) Schemes under PMKSY (AIBP) in the State of Sikkim, sanctioned under the Ministry of Water Resources, Ganga Rejuvenation and River Development Government of India as per the information provided by Water Resources Department, Government of Sikkim.

XV. Rain Water Harvesting:

The NOC issued by CGWA for abstraction of ground water includes condition for installation of rain water harvesting system by the industrial units. The land survey have been conducted by CGWA officials but the installation of said system is underway for all industries. In the matter of O.A. No. 325/2015 Lt. Col. Sarvadaman Singh Oberoi Vs. UOI, the Rural Development Department has carried out the following activities:

1. Construction of 1489 water harvesting tanks of capacity 40 KL in 13 drought prone areas under National Adaptation Fund for Climate Change (NAFCC).
2. Construction of 72,900 water harvesting structures for rainwater recharge of 4374 ponds
3. Work for revival of 7 hilltop lakes have been under taken out of which 4 have been completed and 3 are under process
- 4.

XVI. Demarcation of Floodplain and removal of illegal encroachments:

There are no flood plains in the state of Sikkim.

XVII. Maintaining minimum e-flow of river:

E-Flow meters have been installed in the following Hydro Electric Projects (HEPs) of the four river stretches:

a)ManeyKhola (Adampool to Burtuk Stretch) – NO HEPs in this stretch

b) Rangit River (NHPC dam site to Triveni) :96 MW Jorethang Loop HEP, South Sikkim & 97MW Tashiding HEP, West Sikkim

c)Rani Chu (Namli to Singtam): 510 MW Teesta Stage V, Balutar, East Sikkim & 115MW Madhya Bharat Power Corp. Ltd., Nimtar, East Sikkim.

d) Teesta (Melli to Chungthang): 99MW Chujachen HEP (2 nos), East Sikkim, 1200 MW Teesta Stage II HEP, 96MW Dikchu, HEP North Sikkim

XVIII. Plantation activities along the rivers:

The Environment & Soil Conservation Division, Forest & Environment Department has submitted action plan for further conservation activities that shall take place under the guidance of River Rejuvenation Committee. Plantation along with engineering works has been proposed for rejuvenation of the four polluted river stretches.

Action Plan regarding the same has been included in delisting report submitted to MoJS.

XIX. Development of biodiversity park: Matter has been apprised and information awaited from implementing department.

XX. Reuse of Treated Water:

All industries requiring ETP are directed to maintain Zero Liquid Discharge in their premises. Treated effluent is to be utilized in cooling towers, irrigation of green belt, evaporation or flushing purposes. To ensure that no effluent is discharge all pharmaceutical units in particular have installed CCTV in drain outlets of their premises as per the directions of the SPCB-Sikkim and footage is submitted to SPCB on weekly basis.

The SPCB is also in process of ensuring that all industries have installed RO system with Multi Effect Evaporator within six months.

Training programme conducted for all water based industries on 01/06/2022 by SPCB in coordination with Knowledge Lens Innovative Labs, Chennai on O&M of Online Continuous Effluent Monitoring System.

On-site training programme on effluent management & treatment was conducted by SPCB for various departments, GoS such as Health & Family Welfare, PHE, Animal Husbandry, Sikkim Milk Unions and Food preservation factory on 03/06/2022.

XXI. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards: Maney Khola, East Sikkim

The River Rejuvenation Committee has been notified as Nodal Agency for protection of all water bodies in the State by Govt. of Sikkim vide Ref No. 205/GOS/F&ED/SECY dated 21/01/2021. First meeting for the same was held on

28/01/2021. Status Report on Implementation of Action plan has been sought from line departments for further submission to the CPCB.

Action Taken Report on Status of Implementation of action plans submitted in compliance to the Hon'ble NGT orders in O.A. 673/2018 in the matter of 'News item published in the Hindu authored by Shri Jacob Koshy titled ' More River stretches are now critically polluted: CPCB', with Dr. Tudi Indrasena Reddy & Ors. Vs. UoI & Ors. for delisting of the four polluted river stretches in the state of Sikkim has been submitted on 02/08/2021

As per the directions of the MoEF&CC, Public notice has been issued in local newspapers on Idol Immersion guidelines before festival/puja season.

Pre, During and Post festival monitoring of rivers have also been completed and report submitted to CPCB.

XXII. Status of Preparation of Action Plan by the 13 Coastal States: Not applicable.

XXIII. Regulation of Mining Activities in the State/UT: overseen by Department of Mines & Geology. Collection of loose boulders and loose sand are being undertaken under the supervision of the Department of Forest & Environment, Government of Sikkim.

XXIV. Action against identified polluters, law violators and officers responsible for failure for vigorous monitoring:

1. Grievances have not been received in the month of December, 2022 in the NMCG portal.
2. Grievances related to water pollution have not been received in public grievance portal of SPCB-Sikkim for the month of December, 2022