



H.P. STATE POLLUTION CONTROL BOARD

"HIM PARIVESH" PHASE-III, NEW SHIMLA-171 009 (H.P.)

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No. HPSPCB (NGT) OA. No. 673/2018 (Polluted River Stretches) /Vol-IX/22-

19022-35
Dated: 07.01.2023

To

The Director General,

National Mission for Clean Ganga, Ministry of Jal Shakti, First Floor, Major
Dhyan Chand National ZStadium, India Gate, New Delhi- 110002

Subject: Submission of Monthly Progress Reports for ensuring compliance to Hon'ble NGT order in OA. No. 673/2018 in the matter of news item published in "The Hindu" titled "More river stretches are now critically polluted: CPCB".

Sir,

This is in reference to the Hon'ble NGT orders vide OA. No. 673/2018 (Polluted River Stretches) and directions by the Ministry of Jal Shakti, GoI on the above cited subject.

In this context, the latest monthly progress report for the months w.e.f. **September-2022 to December-2022** in compliance to the aforesaid Hon'ble NGT orders, is hereby enclosed for your kind information and further necessary action please.

Yours faithfully

Encl.: As above

7/1/2023
Member Secretary

HP State Pollution Control Board

Copy to:

1. **Sh. D.P. Mathuria, the Executive Director-Technical**, National Mission for Clean Ganga, Ministry of Jal Shakti, First Floor, Major Dhyan Chand National Stadium, India Gate, New Delhi 110002 for kind information and necessary action please.
2. **The Additional Chief Secretary (Env. Sci. & Tech.) to the Govt. of Himachal Pradesh** for kind information and necessary action please.
3. **The Member Secretary**, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi- 110032 for kind information and necessary action please.
4. **Divisional Head, WQM-I Division**, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi- 110032 for kind information and further necessary action please.

7/1/2023
Member Secretary
HP State Pollution Control Board

National Mission for Clean Ganga

Format for submission of Monthly Progress Report for the Month of September, October & November, 2022 in the NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)

For the State of Himachal Pradesh

Overall status of the State:

I. Population

Total Population: 69, 10,024

Urban Population: 7, 33,974

Rural Population: 61, 76,050

II. Estimated Sewage Generation (MLD):192.53 MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs: 76
- Total Treatment Capacity of STPs (in MLD):127.917
- Capacity Utilization of existing STPs: 81.61 MLD
- MLD of sewage being treated through Alternate technology: 117.202 (Soak Pits, Septic Tanks)
- Gap in Treatment Capacity in MLD: 64.613
- No. of Operational STPs: 76
- No. of Non-complying STPs: 17

Details of each existing STP in the State

Jal Shakti Vibhag

Sr. No.	Location	Existing STP Capacity in MLD	Capacity being utilized in MLD	Operational Status of STP	Compliance Status
1	Sh. Naina Devi Ji (Kola Toba dry nallah)	1.35	0.75	Operational	Complying
2	Ghumarwin (Bajohra MC ward)	1.2	1.2	Operational	Complying
3	Chamba -STP Barga - 1	1.501	1.2	Operational	Complying
4	Chamba -STP Barga-2	0.77	0.5	Operational	Complying
5	Chamba -STP Sitla Bridge	0.2	0	Operational	Complying
6	Chamba -STP at Bhagot	0.89	0.88	Operational	Complying
7	Chamba-STP at Karian	0.49	0.3	Operational	Complying
8	Bharmour- Hadsar	0.21	0.08	Operational	Complying

9	Hamirpur Town-Zone No. I	3.13	1.65	Operational	Non-Complying
10	Hamirpur Town -Zone No. II	1.35	1.10	Operational	Non-Complying
11	Hamirpur Town- Zone No. III	0.68	0.68	Operational	Non-Complying
12	Hamirpur- STP Ward No. 11	0.57	0.10	Operational	Complying
13	Nadaun/Nagarda Nr Hospital	1.69	0.76	Operational	Non-Complying
14	Sewerage scheme to Sujanpur Town(Zone 1) Near HPSEB sub Station Sujanpur	1.5	1.20	Operational	Non-Complying
15	Sewerage scheme to Sujanpur Town(Zone II) Near Govt ITI Doli Sujanpur	1.75	0.50	Operational	Complying
16	Dehra- Near Shamshan Ghat Dehra	1.38	0.62	Operational	Complying
17	Jawalamukhi- Near Petrol Pump Ganju Bag	2.83	2.03	Operational	Complying
18	Nurpur- On the left bank of Jabber Khad near Bodh	3.13	0.20	Operational	Complying
19	Dharamshala-Chellian	5.15	3.61	Operational	Complying
20	Dharamshala -Old Charri Road	0.2	0.17	Operational	Complying
21	Dharamshala - Ramnagar	0.03	0.03	Operational	Complying
22	Dharamshala- Bhagsu	0.052	0.02	Operational	Complying
23	Dharamshala-Chellian Near Nag Mandir	0.165	0.150	Operational	Complying
24	Dharamshala-Mela ground Gamur	1.40	0.35	Operational	Complying
25	Dharamshala-Naddi	0.144	0.144	Operational	Complying
26	Nagrota (village Tharu near Baner Khad)	1.34	1.05	Operational	Complying
27	Tanda-Right side bank of BanerKhad at Dr. RPGMG Tanda	1.4	1	Operational	Complying
28	Kangra- STP Zone -I Near Senior Sec. School Kangra	1.68	1.55	Operational	Complying
29	Kangra-STP Zone -II Near Bye pass Kangra	1.46	1.07	Operational	Complying
30	Kangra- STP Zone -III Old Kangra near Fort	0.63	0.51	Operational	Complying

31	Palampur- Left Bank of Bihral Khad Bear Insp. Hut Palampur	0.351	0.33	Operational	Complying
32	Kullu Town- Lanka Bekar	2.57	2.42	Operational	Complying
33	Kullu Town- Bhootnath	2.5	2.36	Operational	Complying
34	Kullu Town-Badah	0.38	0.27	Operational	Complying
35	Manali-Near Police Station Manali (Capacity enhanced from 1.82 MLD to 3.00 MLD)	3.00	2.85	Operational	Complying
36	Marhi-Manali	0.2	0.086	Operational	Complying
37	Bhunter -Mela Ground	0.99	0.99	Operational	Complying
38	Bhunter- Sarabai	0.46	0.35	Operational	Complying
39	Bhunter- Jarad	0.87	0.80	Operational	Non-Complying
40	Jogindernagar-Village Majahrnoo	1.73	1.21	Operational	Complying
41	Mandi –Raghunath ka Padhar	3.83	3.50	Operational	Complying
42	Mandi- Khaliyar	0.47	0.46	Operational	Complying
43	Sundernagar (Chandpur)	3.55	3.23	Operational	Complying
44	Sarkaghat-Paplog Zone B	0.7	0.29	Operational	Complying
45	Sarkaghat-Barchhwar Zone-C	1.67	0.96	Operational	Complying
46	Sandhole Phase-I	0.31	0.15	Operational	Complying
47	R/Peo -Sarbo	1	0.57	Operational	Complying
48	Providing Sewerage Scheme to Sangla (Phase - II & III) in District Kinnaur (HP)	0.13	0.08	Operational	Complying
49	Rampur-Khopri	1	0.82	Operational	Complying
50	Rampur-Chuhabag	0.5	0.45	Operational	Non-Complying
51	Jakhri	1	0.70	Operational	Complying
52	Rohru- Near Radha Swami Petrol Pump	1.745	1.40	Operational	Non-Complying
53	Jubbal- Below 22 KV Sub-Station HPSEB Jubbal Ghunglidhar (Kanhhol)	0.651	0.32	Operational	Non-Complying
54	Kotkhai Town - Zone II	0.305	0.01	Operational	Complying
55	Kotkhai Town - Zone III	0.163	0.01	Operational	Complying
56	Narkanda	0.45	0.24	Operational	Complying

57	Theog	1.15	0.05	Operational	Complying
58	Sunni	0.65	0.05	Operational	Complying
59	Paonta Sahib -Zone -1 (Devi Nagar)	0.44	0.44	Operational	Non-Complying
60	Paonta Sahib-Zone -II (Main Bazar)	1	0.6	Operational	Non-Complying
61	Paonta Sahib-Zone -III (Jambu Ka Khalla)	1.72	0.2	Operational	Complying
62	Solan, Shamti	2.9	1.5	Operational	Complying
63	Parwanoo	1	0.25	Operational	Non-Complying
64	Arki Town	0.7	0.55	Operational	Non-Complying
65	Kunihar	0.9	0.70	Operational	Non-Complying
66	Baddi Town- Kenduwal	5.5	1.5	Operational	Complying
67	Nalagarh Town- Mandiyapur	3.62	2.24	Operational	Complying
68	Una- Chandarlok Colony for Zone D	0.65	0.24	Operational	Complying
69	Una- Rampur for Zone A&B	2.53	0.58	Operational	Complying
70	Mehatpur- Zone D Basdhera (Septic Tank)	0.73	0.15	Operational	Complying
		92.287	57.31		

Details of each existing STP in Shimla Town

SJPNL

Sr. No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized(MLD)	Operational Status of STP	Compliance Status of STP
1	Sanjauli Malyana (Below Malyana Bus Stand)	4.44	4.44	Operational	Non-Complying
2	Dhalli	0.76	0.76	Operational	Non-Complying
3	North Disposal, Shimla (Golcha)	5.8	3.70	Operational	Complying
4	Snowdon (Bermu)	1.35	0.70	Operational	Complying
5	Lalpani near Badagaon	19.35	14.00	Operational	Non-Complying
6	Summer Hill (Below Andri)	3.93	0.70	Operational	Complying
Total		35.63	24.3		

Details of under construction STPs in the State**Jal Shakti Vibhag**

Sr. No.	Location of STP	Capacity (in MLD)	Physical Progress (STP) in % age	Completion Timeline
1	Trilokpur –Kheri Johron	1.5	100%	March-2023
2	Kala Amb	1.7	100%	March-2023
3	Gagret	3.14	100%	June 2023
4	Bangana	0.40	100%	June-2023
5	Rewalsar (Chalahar)	0.35	95%	March-2023
6	Chowari	1.1	95%	March-2023
7	Rarang	0.25	95%	June-2023
8	Chintpurni-Zone-I	0.57	90%	December -2023
9	Sewerage Scheme to Rampur-Dakolar	1.16	85%	June-2023
10	Chamba- Parel	0.87	80%	August -2023
11	Santokhgarh	2.5	80%	March-2023
12	Chintpurni-Zone-II	2.01	80%	December -2024
13	Chintpurni-Zone-III	2.49	80%	December -2023
14	Sewerage Scheme Hatkoti (Rural opp. Nandpur Kanch left bank of Pabbar River)	0.651	78%	December -2023
15	Sewerage Scheme to Rampur-Khaneri	1.2	60%	June-2023
16	Talai	1.65	50%	March-2023
17	Thunag	0.32	50%	April-2023
18	Mandi –Raghunath ka Padhar	9.08	41%	June 2023
19	Janjheli	0.64	40%	April-2023
20	Mandi- Khaliyar	1.5	36%	June 2023
21	Dalhousie	2.70	35%	March-2023
22	Sundernagar	4.5	25 %	March-2023
23	Parwanoo Zone-II	1	20%	March-2023
24	Dharamshala –Jatehar	0.6	15%	March-2023
25	Hamirpur - Bajuri	1.06	Work Awarded (Land Dispute)	December -2024
26	Bhota	1.5	Work Awarded (Land Dispute)	December -2024
27	Bharmour Zone-I	0.30	Work Awarded	September -2024
28	Bharmour Zone-II	1.00	Work Awarded	September -2024
29	Killar	0.59	Work Awarded	December -2024

Under Construction STPs in Shimla Town (Detail of SJPNL)

Sr. No	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	STP Lalpani (Upgradation work)	14.2 MLD	70%	16950	March, 2023
2	STP Malyana (Upgradation work)	5.2 MLD	90%	4050	Jan, 2023
3	STP Dhalli (Upgradation work)	1.5 MLD	65%	960	Jan, 2023
4	STP Snowdon	1.35 MLD	Retrofitting of these 3 no. of STPs is in progress 40% work completed rest is in progress	840	-
5	STP North Disposal	5.80 MLD		3500	
6	STP Summer Hill	3.93 MLD		1770	

Details of proposed STPs in the State

Jal Shakti Vibhag

Sr. No.	Location of STP	Capacity of STP proposed (in MLD)	Status of Project (atDPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Nerchowk	3.36	Under-Tendering	Dec-2023
2	Rajgarh	1.5	Under-Tendering	Dec-2023
3	Banjar	0.55	Under-Tendering	Dec-2023
4	Baijnath- Paprola	3.64	Under-Tendering	Dec-2023
5	Chopal	0.6	At DPR Stage	Dec-2023
6	Nerwa	0.66	At DPR stage	Dec-2023
7	Jawali Town	1.35	At DPR Stage	Dec-2023
8	Mehatpur-Zone- E &F Basdhera	1.3	At DPR Stage	Dec-2023
9	Chirgaon	0.70	At DPR Stage	Dec-2023
10	Shahpur Town	1.67	At DPR stage	Dec-2023
11	Anni	0.55	At DPR stage	Dec-2023
12	Nirmand	0.75	At DPR stage	Dec-2023
13	Solan-Zone-1 (BelowKhundi Dhar) near Shamti	6.5	At DPR stage	Dec-2023
14	Solan-Zone -II	4.7	At DPR stage	Dec-2023
15	Solan Zone -III	3.4	At DPR stage	Dec-2023
16	Solan Zone -IV	1	At DPR stage	Dec-2023
17	Kandaghat	1.3	At DPR stage	Dec-2023
18	Tahliwal	1	At DPR stage	Dec-2023
19	Daulatpur	1	At DPR stage	Dec-2023
20	Amb	1.9	At DPR stage	Dec-2023
21	Bilaspur - below	5	At DPR stage (Under	Dec-2023

	Luxmi Narayan Temple (STP-1)		AFD)	
22	Bilaspur - Lower Lakhanpur (STP-2)	2	At DPR stage (Under AFD)	Dec-2023
23	Palampur	2.93	At DPR stage (Under AFD)	Dec-2023
24	Karsog	1.80	At DPR stage (Under AFD)	Dec-2023
25	Manali- Rangri	16.33	Tender for eligibility criteria for sewerage network opened on 19.07.2022. 3 bidders participated, 2 bidders qualified. Financial bid to be opened with AFD permission. (Under AFD)	Dec-2023
27	Nahan-Zone-I	4.58	At DPR stage (Under AFD)	Dec-2023
28	Nahan –Zone-II	2.92	At DPR stage (Under AFD)	Dec-2023
29	Nahan-Zone -III	1.28	At DPR stage (Under AFD)	Dec-2023

Details of proposed STPs in Shimla Town

SJPNL

Sr. 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
1	Dogra Bridge	3.1 MLD	Awarded (FCA case is in progress)	--
2	At Totu Bhariyal	2.0 MLD	Awarded (Land use transfer case with forest is in process)	--
3	STP Dhalli-II & Mashobra	2.5 MLD	At DPR Stage	--

IV. Details of Industrial Pollution:

- No. of industries in the State: **11584**
- No. of water polluting industries in the State: 3759
- Quantity of effluent generated from the industries in MLD: **41.60 MLD**
- Quantity of Hazardous Sludge generated from the Industries in TPD: **7.42 MT approx.**
- Number of industrial units having ETPs: **1070 ETPs are operational**
- Number of industrial units connected to CETP: **456**
- Number and total capacity of ETPs (details of existing/ under construction / proposed): **total treatment capacity 52.54 MLD (including 25 MLD CETP)**
- Compliance status of the ETPs: **03 ETP are non-complying**
- Number and total capacity of CETPs (details of existing/ commissioned / proposed)

Existing: CETP Baddi (25 MLD), Proposed: Poanta Sahib (2 MLD), Commissioned: CETP Kala Amb (5 MLD)

No. of CETP existing: **1**

No. of CETP proposed: **1**

No. of CETP under-construction: **0**

No. of CETP being commissioned **1**

- Status of compliance and operation of the CETPs

Sr. No.	Location	Capacity	Status
1	CETP at Kenduwal, Baddi, District- Solan (HP)	25	Operational, Complying
2	CETP at Paonta Sahib, District- Sirmour HP	2	Proposed
3	CETP Kala Amb, District- Sirmour	5 (Phase-I 2.5 MLD)	Under Commissioning

Regional Office	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Poanta Sahib	Total 1267 (140 are water polluting industries)	10.75 MLD	140 ETPs operational	CETP Kala Amb of capacity 5 MLD (Phase-I: 2.5 MLD) being commissioned

				Proposed: Paonta Sahib of capacity 2 MLD
Parwanoo	Total 1124 (108 are water polluting industries)	0.9761MLD	105 ETPs are operational	Nil
Bilaspur	Total 283 (21 are water polluting industries)	0.083 MLD	16 ETPs are operational	Nil
Shimla	Total 724 (438 are water polluting industries)	0.213 MLD	33 ETPs operational	Nil
Dharamshala	Total 1729 (1578 are water polluting industries)	1.51MLD	65 ETPs operational	
Baddi	Total 2443 (576 are water polluting industries)	23.2 MLD	576 (456 units connected to CETP Baddi Rest has captive ETPs)	CETP Baddi of capacity 25 MLD is Operational
Kullu	Total 1521 (129 are water polluting industries)	0.166 MLD	17 units have ETPs and are operational	Nil
Rampur	Total 482 (330 are water polluting industries)	0.112 MLD	6 ETPs are operational	Nil
Chamba	Total 514 (330 are water polluting industries)	0.011 MLD	2 ETPs are operational	Nil
Una	Total 954 (86 is water polluting industries)	4.36MLD	86 ETP is operational	Nil
Mandi	Total 543 (36 are water polluting industries)	0.2103 MLD	23 ETPs are operational	Nil

- **Solid Waste Management:** Total number of Urban Local Bodies and their Population:61 ULBs and population: 7,12,575
- Current Municipal Solid Waste Generation: 365.6 TPD approx.
- 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), biomethanation, MRF etc: **301.5 TPD** waste processed, **17.9 TPD** inerts/ rejects disposed through landfilling,
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): **(Gap is less than 20%)**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction):**Nil**
- Total no. of wards: 558

- No. of wards having door to door collection service: 509
- No. of wards practicing segregation at source :
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology): **Upgradation of MSW facilities are proposed to enhance the capacity of different ULBs.**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.:
- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers:**3 (Mandi, Kullu & Manali)**
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:

Status of ULB wise Management of Solid Waste

Total waste gen. (TPD)	wet waste	dry waste	Wet waste processed (TPD)	Dry waste processed (TPD)	Inerts/ rejects disposed safely through landfilling (TPD)	Total quantity of waste processed (TPD)	Gap in processing (TPD)
365.6	201.1	146.2	159.8	123.8	17.9	301.5	64.14

V. Bio-medical Waste Management: (Scientific)

- Total Bio-medical generation:4130.30 Kg/day (2021-2022)
- No. of Hospitals and Health Care Facilities:9064 (2021-2022)
- Status of Treatment Facility/ CBMWTF:
 - There are three Common Biomedical Waste Treatment Facilities (CBWTFs) operating in the State with incineration capacity is 6.4 MT/day.
 - M/s Enviro Engineers, Biomedical Waste Treatment Facility, Sandli, Tehsil Arki, District Solan having incinerable capacity 100 Kg/hr covering District Shimla, Solan, Mandi, Kullu, Bilaspur, Sirmour.
 - M/s Enviro Engineers, CBWTF, Una having capacity of 250kg/hr covering District Una
 - M/s Suraksha Bio Sanitizer, Common Biomedical Waste Treatment Facility, Dhugiari, P.O Gaggal Tehsil & District Kangra having incinerable capacity 50 Kg/hr covering District Kangra, Chamba and Hamirpur.

VI. Hazardous Waste Management:

- Total Hazardous Waste generation: 46609.1 MT for the year 2021-22
- No. of Industries generating Hazardous waste:- 2520 nos

- Treatment Capacity of all TSDFs: 50,000 Tonne Per Annum and Overall capacity : 10 lakhs tonne
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:- 19,020 MT
- Details of on-going or proposed TSDF: - Nil.

VII. Plastic Waste Management:

- Total Plastic Waste generation: 9654.45 TPA
- Treatment/ Measures adopted for reduction or management of plastic waste:
Used for road construction, sent to Cement Plant as RDF, The Government of Himachal Pradesh has notified a Policy regarding Buy-back of non-recyclable and Single Use Plastic Waste including plastic bags in the Himachal Pradesh from the Rag pickers and households, providing Minimum Support Price of Rs. 75/- (Rupees Seventy Five) only per kilogram.

VIII. Details of Alternate Treatment Technology being adopted by the State/UT:

All STPs in Himachal Pradesh are operational on convention technology with MBBR (Moving Bed Bio-Film Reactor) system in secondary treatment. However now all STPs are being upgraded with tertiary treatment and proposed STPs will be equipped with tertiary treatment and septage treatment.

However Upgradation of 3 nos of STPs namely Dhalli, Malyana and Lalpani through Sequencing Batch Reactor (SBR) technology is under process.

Septic tanks have been provided either at Community Level or by the individual households and Himachal Pradesh is one of the states in the country which has achieved ODF status. In Rural Areas double pit (septic tanks) treatment is being provided under Swachh Bharat Mission.

In addition, in-situ Phytoremediation technique is being applied in nallahs for treatment of water.

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

The work of in-situ remediation in Priority-I (Sukhna Nallah) has been completed and is operational.

The work of in-situ remediation in Jattan Wala Nallah (catchment of Priority-II river stretch) was completed however was damaged during rainy season.

- X. Details of Nodal Officer appointed by Chief Secretary in the State/UT:** An “Environment Monitoring Cell” comprising of following officers has been formed on 19th Feb, 2020 to facilitate coordination and compliance of directions of Hon’ble NGT and assist in organizing review by the Chief Secretary:-
1. The Member Secretary, H.P. State Pollution Control Board
 2. The Director, Environment, Science & Technology
 3. The Director, Urban Development
 4. The Joint Secretary (Env., Sci. & Technology) to Govt. of HP.
- XI. Details of meetings carried under the Chairmanship Chief of Secretary in the State/UT:**
- 3 nos. of Review Meeting have been held under the Chairmanship of Worthy Chief Secretary to Govt. of H.P. in year FY **2020-21** (17.06.2020, 6.10.2020, 12.01.2021). 2 2
- 3nos of Review Meeting have been held under the Chairmanship of Worthy Chief Secretary to Govt. of H.P. in year FY **2021-22** (19.06.2021, 26.10.2021& 29.03.2022).
- XII. Latest water quality of polluted river, its tributaries, drains with flow details and ground water quality in the catchment of polluted river**
- Details attached as **Annexure-I (September-2022 to November 2022).**
- XIII. Ground water regulation:**
- Himachal Pradesh has enacted the Groundwater Act in 2005 to regulate extraction of groundwater in the vulnerable areas of the state, which has now been extended all over the state.
- The extraction of groundwater in any form is controlled and regulated by the provisions of the act.
- The State has formulated and implemented a regulatory regime to ensure and promote wise use of groundwater.
- XIV. Good irrigation practices being adopted by the State:**
- Promotion of water use efficiency by providing piped irrigation network instead of open channel; micro irrigation through sprinklers and drip.
- XV. Rain Water Harvesting:**
- The Jal Shakti Vibhaghas taken up water conservation initiative under various programmes like MNREGA, Sustainability component of NRDWP, CRF, D.C. Funds, AIBP, NABARD, PARVATDHARA etc.
- XVI. Demarcation of Floodplain and removal of illegal encroachments:**

XVII. Maintaining minimum e-flow of river:

The following steps have been taken to maintain environmental flow in the river/ Nallah

- The RTWQMS along with Radar system for water quality monitoring and flow measurement, respectively, have been installed in river Markanda near Viii Ogli, Kala Amb town and in river Kaushalya near village Kamli.
- Installation of RTWQMS at river Sirsa, the Site is identified, tendering work is in progress.
- Total 27 nos of Check Dams constructed in Sukhna (Priority-I) at Parwanoo.
- Total 45 nos of Check Dams constructed in Ashwani (Priority-V) along Yashwant Nagar.
- Total 110 nos of Check Dams constructed in Beas (Priority-V) at Mandi and Jogindarnagar.

Further, Hydro-Electric Projects (HEP) located on the catchment of rivers are mandated to ensure minimum 15% discharge of lean season flow on the downstream of the HEP into river body.

XVIII. Plantation activities along the rivers:

Priority-I (SukhnaNallah at Parwanoo)

- 2200 Plants have been planted in FY 2019-20.
- 4400 Plants have been planted in FY 2020-21

Priority-II (River Markanda at Kala Amb)

- 1600 plants have been planted in TrilokpurDevini Area in FY 2019-20
- 9600 plants planted during FY-2020-21.

Priority – III (RiverSirsa at Baddi, Nalagarh in District Solan

- 8800 plants has been planted in FY 2019-20.
- 18000 plants planted in FY2020-21.

Priority – V (River Ashwani, District- Shimla HP)

- 28600 Plants have been planted in 2019-20.
- 11000 plants have been planted in FY 2020-21.

Priority – V (River Beas from Kullu to Dehra-Gopipur at District- Kullu, Mandi, Hamirpur and Kangraof Himachal Pradesh

- 17,800 Plants are planted in FY 2019-20.
- 35,100 plants have been planted in FY2020-21

Priority – V (River Giri at Sainj, District- Shimla HP)

- 3300 Plants are planted in FY 2019-20.
- 4400 plants have been planted in FY 2020-21.

Priority – V (River Pabbar along Rohru, District- Shimla HP)

- Total 3300 Plants are planted in FY 2019-20.
- 7700 plants have been planted in FY 2020-21.

XIX. Development of biodiversity park:

- As per the Action Plan of Priority I & II, Bio-diversity Park is proposed.
- No suitable land is available for the construction of Bio-Diversity Park in catchment of Priority-I ~ SukhnaNallah.
- Setting up of Bio-diversity Park, for Priority-III (River Sirsa)
The work has been completed
- Development of Eco-Park in Paonta Sahib:
The work has been completed
- Bio-Diversity Park in Kala Amb:
Work has been completed.

XX. Reuse of Treated Water:

JSV is providing facility for bulk water user at all the STPs to enable drawing the effluent for reuse. Tertiary treatment shall also be provided as per requirement of the Bulk Users.

XXI. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

River Beas (Kullu to Dehra Gopipur) which is currently categorized as Priority-V Polluted River Stretch in HP, upon implementation and completion of various action points mentioned in approved action plan, has shown considerable improvement in the water quality and the matter of delisting it from polluted river stretch has already been taken up with CPCB.

XXII. Status of Preparation of Action Plan by the 13 Coastal States:No coastal area in HP

XXIII. Regulation of Mining Activities in the State/UT:Mining activities are being regulated under HP Mines and Mineral Act and also Water (Prevention and Control of Pollution)Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

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

All action plans are being implemented. State Board conduct regular monitoring as per the schedule and action against polluters in terms of issuing show cause notices, power disconnection &Environmental Compensation is initiated accordingly.

The water quality of polluted rivers for month of **September, 2022:**

Entry Point

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100ml	MPN/100ml
SukhnaNallah upstream of Parwanoo Town at Shivloti Temple, Village – Ambota	I	8.20	8.3	0.4	2.0	21
River Markanda Upstream Kala Amb	II	7.86	8.0	1.4	32	280
River Sirsa U/s SitomajriNallah	III	8.10	5.2	1.0	2	25
Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	8.18	7.4	6.8	210	920
River Beas, U/s Manali	V	7.98	8.3	0.1	79	240
River Giri at U/s Chailla	V	7.66	8.6	BDL	5.5	21
River Pabbar U/s Dhambari	V	7.94	8.7	BDL	110	1600

Exit Point

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100ml	MPN/100ml
SukhnaNallah D/s Water Quality at Kalka Barrier.	I	8.32	6.8	0.8	2.0	25
River Markanda D/s JattanWalaNallah at Sadhora	II	7.66	4.9	2.0	3520	14720
River Sirsa D/s Nalagarh Town	III	8.08	4.8	1.1	2	26
AshwaniKhad U/s Yashwant Nagar	V	7.91	6.9	1.0	2	27
River Beas (Right Bank) D/s Dehra Town)	V	8.02	8.7	0.6	4.0	110
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	7.86	8.5	BDL	<1.8	17
River Pabbar D/s of TRT of Sawara Kuddu	V	7.88	8.8	BDL	3.7	17

The water quality of polluted rivers for month of **October, 2022**:

Entry Point

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100ml	MPN/100ml
SukhnaNallah upstream of Parwanoo Town at Shivloti Temple, Village – Ambota	I	8.34	7.0	0.1	<1.8	5.5
River Markanda Upstream Kala Amb	II	7.80	7.5	2.4	280	920
River Sirsa U/s SitomajriNallah	III	8.08	6.1	3.0	33	350
Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	8.18	7.8	1.8	280	1600
River Beas, U/s Manali	V	8.18	7.5	BDL	17	280
River Giri at U/s Chailla	V	7.79	7.5	BDL	17	280
River Pabbar U/s Dhambari	V	8.03	9.1	BDL	34	350

Exit Point

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100ml	MPN/100ml
SukhnaNallah D/s Water Quality at Kalka Barrier.	I	8.17	7.70	8.0	540	>1600
River Markanda D/s JattanWalaNallah at Sadhora	II	7.89	5.5	2.9	3950	17500
River Sirsa D/s Nalagarh Town	III	8.21	6.5	3.0	33	350
AshwaniKhad U/s Yashwant Nagar	V	8.13	7.4	1.0	4	70
River Beas (Right Bank) D/s Dehra Town)	V	7.86	8.9	1.0	23	140
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	7.72	7.3	BDL	26	280
River Pabbar D/s of TRT of Sawara Kuddu	V	7.85	8.1	BDL	22	350

The water quality of polluted rivers for month of **November, 2022:**

Entry Point

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100ml	MPN/100ml
SukhnaNallah upstream of Parwanoo Town at Shivloti Temple, Village – Ambota	I	7.6	8.4	0.3	4	58
River Markanda Upstream Kala Amb	II	7.7	8.0	2.60	140	540
River Sirsa U/s SitomajriNallah	III	7.67	6.1	0.6	39	430
Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	8.59	8.0	2.5	220	1600
River Beas, U/s Manali	V	7.39	8.1	0.1	38	150
River Giri at U/s Chailla	V	7.93	7.5	BDL	14	170
River Pabbar U/s Dhambari	V	8.24	9.0	BDL	26	280

Exit Point

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100ml	MPN/100ml
SukhnaNallah D/s Water Quality at Kalka Barrier.	I	7.00	4.5	6.0	>1600	>1600
River Markanda D/s JattanWalaNallah at Sadhora	II	7.34	5.0	3.0	4900	24000
River Sirsa D/s Nalagarh Town	III	7.91	5.9	0.2	6	63
AshwaniKhad U/s Yashwant Nagar	V	8.3	7.8	0.2	6	79
River Beas (Right Bank) D/s Dehra Town)	V	7.525	6.7	1.0	6.8	210
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	7.89	7.5	BDL	17	280
River Pabbar D/s of TRT of Sawara Kuddu	V	8.04	8.04	BDL	17	350

National Mission for Clean Ganga

**Format for submission of Monthly Progress Report for the Month of December, 2022 in the
NGT Matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020)**

For the State of Himachal Pradesh

Overall status of the State:

I. Population

Total Population: 69, 10,024

Urban Population: 7, 33,974

Rural Population: 61, 76,050

II. Estimated Sewage Generation (MLD):192.53 MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs: 76
- Total Treatment Capacity of STPs (in MLD):127.917
- Capacity Utilization of existing STPs: 81.61 MLD
- MLD of sewage being treated through Alternate technology: 117.202 (Soak Pits, Septic Tanks)
- Gap in Treatment Capacity in MLD: 64.613
- No. of Operational STPs: 76
- No. of Non-complying STPs: 15

Details of each existing STP in the State

Jal Shakti Vibhag

Sr. No.	Location	Existing STP Capacity in MLD	Capacity being utilized in MLD	Operational Status of STP	Compliance Status
1	Sh. Naina Devi Ji (Kola Toba dry nallah)	1.35	0.75	Operational	Complying
2	Ghumarwin (Bajohra MC ward)	1.2	1.2	Operational	Complying
3	Chamba -STP Barga - 1	1.501	1.2	Operational	Complying
4	Chamba -STP Barga-2	0.77	0.5	Operational	Complying
5	Chamba -STP Sitla Bridge	0.2	0	Operational	Complying
6	Chamba -STP at Bhagot	0.89	0.88	Operational	Complying
7	Chamba-STP at Karian	0.49	0.3	Operational	Complying
8	Bharmour- Hadsar	0.21	0.08	Operational	Complying

9	Hamirpur Town-Zone No. I	3.13	1.65	Operational	Complying
10	Hamirpur Town -Zone No. II	1.35	1.10	Operational	Complying
11	Hamirpur Town- Zone No. III	0.68	0.68	Operational	Complying
12	Hamirpur- STP Ward No. 11	0.57	0.10	Operational	Complying
13	Nadaun/Nagarda Nr Hospital	1.69	0.76	Operational	Complying
14	Sewerage scheme to Sujanpur Town(Zone 1) Near HPSEB sub Station Sujanpur	1.5	1.20	Operational	Complying
15	Sewerage scheme to Sujanpur Town(Zone II) Near Govt ITI Doli Sujanpur	1.75	0.50	Operational	Non-Complying
16	Dehra- Near Shamshan Ghat Dehra	1.38	0.62	Operational	Complying
17	Jawalamukhi- Near Petrol Pump Ganju Bag	2.83	2.03	Operational	Complying
18	Nurpur- On the left bank of Jabber Khad near Bodh	3.13	0.20	Operational	Complying
19	Dharamshala-Chellian	5.15	3.61	Operational	Complying
20	Dharamshala -Old Charri Road	0.2	0.17	Operational	Complying
21	Dharamshala - Ramnagar	0.03	0.03	Operational	Complying
22	Dharamshala- Bhagsu	0.052	0.02	Operational	Complying
23	Dharamshala-Chellian Near Nag Mandir	0.165	0.150	Operational	Complying
24	Dharamshala-Mela ground Gamur	1.40	0.35	Operational	Complying
25	Dharamshala-Naddi	0.144	0.144	Operational	Complying
26	Nagrota (village Tharu near Baner Khad)	1.34	1.05	Operational	Complying
27	Tanda-Right side bank of BanerKhad at Dr. RPGMG Tanda	1.4	1	Operational	Complying
28	Kangra- STP Zone -I Near Senior Sec. School Kangra	1.68	1.55	Operational	Complying
29	Kangra-STP Zone -II Near Bye pass Kangra	1.46	1.07	Operational	Complying
30	Kangra- STP Zone -III Old Kangra near Fort	0.63	0.51	Operational	Complying

31	Palampur- Left Bank of Bihral Khad Bear Insp. Hut Palampur	0.351	0.33	Operational	Complying
32	Kullu Town- Lanka Bekar	2.57	2.42	Operational	Complying
33	Kullu Town- Bhootnath	2.5	2.36	Operational	Complying
34	Kullu Town-Badah	0.38	0.27	Operational	Complying
35	Manali-Near Police Station Manali (Capacity enhanced from 1.82 MLD to 3.00 MLD)	3.00	2.85	Operational	Complying
36	Marhi-Manali	0.2	0.086	Operational	Complying
37	Bhunter -Mela Ground	0.99	0.99	Operational	Complying
38	Bhunter- Sarabai	0.46	0.35	Operational	Complying
39	Bhunter- Jarad	0.87	0.80	Operational	Non-Complying
40	Jogindernagar-Village Majahrnoo	1.73	1.21	Operational	Complying
41	Mandi –Raghunath ka Padhar	3.83	3.50	Operational	Complying
42	Mandi- Khaliyar	0.47	0.46	Operational	Complying
43	Sundernagar (Chandpur)	3.55	3.23	Operational	Complying
44	Sarkaghat-Paplog Zone B	0.7	0.29	Operational	Complying
45	Sarkaghat-Barchhwar Zone-C	1.67	0.96	Operational	Complying
46	Sandhole Phase-I	0.31	0.15	Operational	Complying
47	R/Peo -Sarbo	1	0.57	Operational	Complying
48	Providing Sewerage Scheme to Sangla (Phase - II & III) in District Kinnaur (HP)	0.13	0.08	Operational	Complying
49	Rampur-Khopri	1	0.82	Operational	Complying
50	Rampur-Chuhabag	0.5	0.45	Operational	Non-Complying
51	Jakhri	1	0.70	Operational	Complying
52	Rohru- Near Radha Swami Petrol Pump	1.745	1.40	Operational	Non-Complying
53	Jubbal- Below 22 KV Sub-Station HPSEB Jubbal Ghunglidhar (Kanhhol)	0.651	0.32	Operational	Complying
54	Kotkhai Town - Zone II	0.305	0.01	Operational	Non-Complying
55	Kotkhai Town - Zone III	0.163	0.01	Operational	Non-Complying

56	Narkanda	0.45	0.24	Operational	Complying
57	Theog	1.15	0.05	Operational	Non-Complying
58	Sunni	0.65	0.05	Operational	Complying
59	Paonta Sahib -Zone -1 (Devi Nagar)	0.44	0.44	Operational	Non-Complying
60	Paonta Sahib-Zone -II (Main Bazar)	1	0.6	Operational	Non-Complying
61	Paonta Sahib-Zone -III (Jambu Ka Khalla)	1.72	0.2	Operational	Complying
62	Solan, Shamti	2.9	1.5	Operational	Complying
63	Parwanoo	1	0.25	Operational	Non-Complying
64	Arki Town	0.7	0.55	Operational	Non-Complying
65	Kunihar	0.9	0.70	Operational	Non-Complying
66	Baddi Town- Kenduwal	5.5	1.5	Operational	Complying
67	Nalagarh Town- Mandiyapur	3.62	2.24	Operational	Complying
68	Una- Chandarlok Colony for Zone D	0.65	0.24	Operational	Complying
69	Una- Rampur for Zone A&B	2.53	0.58	Operational	Complying
70	Mehatpur- Zone D Basdhera (Septic Tank)	0.73	0.15	Operational	Complying
		92.287	57.31		

Details of each existing STP in Shimla Town

SJPNL

Sr. No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized(MLD)	Operational Status of STP	Compliance Status of STP
1	Sanjauli Malyana (Below Malyana Bus Stand)	4.44	4.44	Operational	Non-Complying
2	Dhalli	0.76	0.76	Operational	Non-Complying
3	North Disposal, Shimla (Golcha)	5.8	3.70	Operational	Complying
4	Snowdon (Bermu)	1.35	0.70	Operational	Complying
5	Lalpani near Badagaon	19.35	14.00	Operational	Non-Complying

6	Summer Hill (Below Andri)	3.93	0.70	Operational	Complying
Total		35.63	24.3		

Details of under construction STPs in the State

Jal Shakti Vibhag

Sr. No.	Location of STP	Capacity (in MLD)	Physical Progress (STP) in % age	Completion Timeline
1	Trilokpur –Kheri Johron	1.5	100%	March-2023
2	Kala Amb	1.7	100%	March-2023
3	Gagret	3.14	100%	June 2023
4	Bangana	0.40	100%	June-2023
5	Rewalsar (Chalahar)	0.35	95%	March-2023
6	Chowari	1.1	95%	March-2023
7	Rarang	0.25	95%	June-2023
8	Chintpurni-Zone-I	0.57	90%	December -2023
9	Sewerage Scheme to Rampur-Dakolar	1.16	85%	June-2023
10	Chamba- Parel	0.87	80%	August -2023
11	Santokhgarh	2.5	80%	March-2023
12	Chintpurni-Zone-II	2.01	80%	December -2024
13	Chintpurni-Zone-III	2.49	80%	December -2023
14	Sewerage Scheme Hatkoti (Rural opp. Nandpur Kanch left bank of Pabbar River)	0.651	78%	December -2023
15	Sewerage Scheme to Rampur-Khaneri	1.2	60%	June-2023
16	Talai	1.65	50%	March-2023
17	Thunag	0.32	50%	April-2023
18	Mandi –Raghunath ka Padhar	9.08	41%	June 2023
19	Janjheli	0.64	40%	April-2023
20	Mandi- Khaliyar	1.5	36%	June 2023
21	Dalhousie	2.70	35%	March-2023
22	Sundernagar	4.5	25 %	March-2023
23	Parwanoo Zone-II	1	20%	March-2023
24	Dharamshala –Jatehar	0.6	15%	March-2023
25	Hamirpur - Bajuri	1.06	Work Awarded (Land Dispute)	December -2024
26	Bhota	1.5	Work Awarded (Land Dispute)	December -2024
27	Bharmour Zone-I	0.30	Work Awarded	September -2024
28	Bharmour Zone-II	1.00	Work Awarded	September -2024

29	Killar	0.59	Work Awarded	December -2024
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Under Construction STPs in Shimla Town (Detail of SJPNL)

Sr. No	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	STP Lalpani (Upgradation work)	14.2 MLD	70%	16950	March, 2023
2	STP Malyana (Upgradation work)	5.2 MLD	90%	4050	Jan, 2023
3	STP Dhalli (Upgradation work)	1.5 MLD	65%	960	Jan, 2023
4	STP Snowdon	1.35 MLD	Retrofitting of these 3 no. of STPs is in progress 40% work completed rest is in progress	840	-
5	STP North Disposal	5.80 MLD		3500	
6	STP Summer Hill	3.93 MLD		1770	

Details of proposed STPs in the State

Jal Shakti Vibhag

Sr. No.	Location of STP	Capacity of STP proposed (in MLD)	Status of Project (atDPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Nerchowk	3.36	Under-Tendering	Dec-2023
2	Rajgarh	1.5	Under-Tendering	Dec-2023
3	Banjar	0.55	Under-Tendering	Dec-2023
4	Baijnath- Paprola	3.64	Under-Tendering	Dec-2023
5	Chopal	0.6	At DPR Stage	Dec-2023
6	Nerwa	0.66	At DPR stage	Dec-2023
7	Jawali Town	1.35	At DPR Stage	Dec-2023
8	Mehatpur-Zone- E &F Basdhera	1.3	At DPR Stage	Dec-2023
9	Chirgaon	0.70	At DPR Stage	Dec-2023
10	Shahpur Town	1.67	At DPR stage	Dec-2023
11	Anni	0.55	At DPR stage	Dec-2023
12	Nirmand	0.75	At DPR stage	Dec-2023
13	Solan-Zone-1 (BelowKhundi Dhar) near Shamti	6.5	At DPR stage	Dec-2023
14	Solan-Zone -II	4.7	At DPR stage	Dec-2023
15	Solan Zone -III	3.4	At DPR stage	Dec-2023
16	Solan Zone -IV	1	At DPR stage	Dec-2023
17	Kandaghat	1.3	At DPR stage	Dec-2023

18	Tahliwal	1	At DPR stage	Dec-2023
19	Daulatpur	1	At DPR stage	Dec-2023
20	Amb	1.9	At DPR stage	Dec-2023
21	Bilaspur - below Luxmi Narayan Temple (STP-1)	5	At DPR stage (Under AFD)	Dec-2023
22	Bilaspur - Lower Lakhanpur (STP-2)	2	At DPR stage (Under AFD)	Dec-2023
23	Palampur	2.93	At DPR stage (Under AFD)	Dec-2023
24	Karsog	1.80	At DPR stage (Under AFD)	Dec-2023
25	Manali- Rangri	16.33	Tender for eligibility criteria for sewerage network opened on 19.07.2022. 3 bidders participated, 2 bidders qualified. Financial bid to be opened with AFD permission. (Under AFD)	Dec-2023
27	Nahan-Zone-I	4.58	At DPR stage (Under AFD)	Dec-2023
28	Nahan –Zone-II	2.92	At DPR stage (Under AFD)	Dec-2023
29	Nahan-Zone -III	1.28	At DPR stage (Under AFD)	Dec-2023

Details of proposed STPs in Shimla Town

SJPNL

Sr. 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
1	Dogra Bridge	3.1 MLD	Awarded (FCA case is in progress)	--
2	At Totu Bhariyal	2.0 MLD	Awarded (Land use transfer case with forest is in process)	--
3	STP Dhalli-II & Mashobra	2.5 MLD	At DPR Stage	--

IV. Details of Industrial Pollution:

- No. of industries in the State: **11584**
- No. of water polluting industries in the State: 3759
- Quantity of effluent generated from the industries in MLD: **41.60 MLD**

- Quantity of Hazardous Sludge generated from the Industries in TPD: **7.42 MT approx.**
- Number of industrial units having ETPs: **1070 ETPs are operational**
- Number of industrial units connected to CETP: **456**
- Number and total capacity of ETPs (details of existing/ under construction / proposed): **total treatment capacity 52.54 MLD (including 25 MLD CETP)**
- Compliance status of the ETPs: **22 ETPs are non-complying**
- Number and total capacity of CETPs (details of existing/ commissioned / proposed)

Existing: CETP Baddi (25 MLD), Proposed: Poanta Sahib (2 MLD), Commissioned: CETP Kala Amb (5 MLD)

No. of CETP existing: **1**

No. of CETP proposed: **1**

No. of CETP under-construction: **0**

No. of CETP being commissioned **1**

- Status of compliance and operation of the CETPs

Sr. No.	Location	Capacity	Status
1	CETP at Kenduwal, Baddi, District- Solan (HP)	25	Operational, Complying
2	CETP at Paonta Sahib, District- Sirmour HP	2	Proposed
3	CETP Kala Amb, District- Sirmour	5 (Phase-I 2.5 MLD)	Under Commissioning

Regional Office	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Poanta Sahib	Total 1267 (140 are water polluting industries)	10.75 MLD	140 ETPs operational	CETP Kala Amb of capacity 5 MLD (Phase-I: 2.5 MLD) being commissioned Proposed: Paonta Sahib of capacity 2 MLD
Parwanoo	Total 1124 (108 are water polluting industries)	0.9761MLD	105 ETPs are operational	Nil
Bilaspur	Total 283 (21 are water polluting industries)	0.083 MLD	16 ETPs are operational	Nil
Shimla	Total 724	0.213 MLD	33 ETPs operational	Nil

	(438 are water polluting industries)			
Dharamshala	Total 1729 (1578 are water polluting industries)	1.51MLD	65 ETPs operational	Nil
Baddi	Total 2443 (576 are water polluting industries)	23.2 MLD	576 (456 units connected to CETP Baddi Rest has captive ETPs)	CETP Baddi of capacity 25 MLD is Operational
Kullu	Total 1521 (129 are water polluting industries)	0.166 MLD	17 units have ETPs and are operational	Nil
Rampur	Total 482 (330 are water polluting industries)	0.112 MLD	6 ETPs are operational	Nil
Chamba	Total 514 (330 are water polluting industries)	0.011 MLD	2 ETPs are operational	Nil
Una	Total 954 (86 is water polluting industries)	4.36MLD	86 ETP is operational	Nil
Mandi	Total 543 (36 are water polluting industries)	0.2103 MLD	23 ETPs are operational	Nil

- **Solid Waste Management:** Total number of Urban Local Bodies and their Population:61 ULBs and population: 7,12,575
- Current Municipal Solid Waste Generation: 365.6 TPD approx.
- 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), biomethanation, MRF etc: **301.5 TPD** waste processed, **17.9 TPD** inerts/ rejects disposed through landfilling,
- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): **(Gap is less than 20%)**
- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction):**Nil**
- Total no. of wards: 558
- No. of wards having door to door collection service: 509
- No. of wards practicing segregation at source :
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology): **Upgradation of MSW facilities are proposed to enhance the capacity of different ULBs.**
- No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills.:

- No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers:3 (**Mandi, Kullu & Manali**)
- No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers:

Status of ULB wise Management of Solid Waste

Total waste gen. (TPD)	wet waste	dry waste	Wet waste processed (TPD)	Dry waste processed (TPD)	Inerts/ rejects disposed safely through landfilling (TPD)	Total quantity of waste processed (TPD)	Gap in processing (TPD)
365.6	201.1	146.2	159.8	123.8	17.9	301.5	64.14

V. Bio-medical Waste Management: (Scientific)

- Total Bio-medical generation:4130.30 Kg/day (2021-2022)
- No. of Hospitals and Health Care Facilities:9064 (2021-2022)
- Status of Treatment Facility/ CBMWTF:
 - There are three Common Biomedical Waste Treatment Facilities (CBWTFs) operating in the State with incineration capacity is 6.4 MT/day.
 - M/s Enviro Engineers, Biomedical Waste Treatment Facility, Sandli, Tehsil Arki, District Solan having incinerable capacity 100 Kg/hr covering District Shimla, Solan, Mandi, Kullu, Bilaspur, Sirmour.
 - M/s Enviro Engineers, CBWTF, Una having capacity of 250kg/hr covering District Una
 - M/s Suraksha Bio Sanitizer, Common Biomedical Waste Treatment Facility, Dhugiari, P.O Gaggal Tehsil & District Kangra having incinerable capacity 50 Kg/hr covering District Kangra, Chamba and Hamirpur.

VI. Hazardous Waste Management:

- Total Hazardous Waste generation: 46609.1 MT for the year 2021-22
- No. of Industries generating Hazardous waste:- 2520 nos
- Treatment Capacity of all TSDFs: 50,000 Tonne Per Annum and Overall capacity : 10 lakhs tonne
- Avg. Quantity of Hazardous waste reaching the TSDFs and Treated:- 19,020 MT
- Details of on-going or proposed TSDF: - Nil.

VII. Plastic Waste Management:

- Total Plastic Waste generation: 9654.45 TPA
- Treatment/ Measures adopted for reduction or management of plastic waste:

Used for road construction, sent to Cement Plant as RDF, The Government of Himachal Pradesh has notified a Policy regarding Buy-back of non-recyclable and Single Use Plastic Waste including plastic bags in the Himachal Pradesh from the Rag pickers and households, providing Minimum Support Price of Rs. 75/- (Rupees Seventy Five) only per kilogram.

VIII. Details of Alternate Treatment Technology being adopted by the State/UT:

All STPs in Himachal Pradesh are operational on convention technology with MBBR (Moving Bed Bio-Film Reactor) system in secondary treatment. However now all STPs are being upgraded with tertiary treatment and proposed STPs will be equipped with tertiary treatment and septage treatment.

However Upgradation of 3 nos of STPs namely Dhalli, Malyana and Lalpani through Sequencing Batch Reactor (SBR) technology is under process.

Septic tanks have been provided either at Community Level or by the individual households and Himachal Pradesh is one of the states in the country which has achieved ODF status. In Rural Areas double pit (septic tanks) treatment is being provided under Swachh Bharat Mission.

In addition, in-situ Phytoremediation technique is being applied in nallahs for treatment of water.

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

The work of in-situ remediation in Priority-I (Sukhna Nallah) has been completed and is operational.

The work of in-situ remediation in Jattan Wala Nallah (catchment of Priority-II river stretch) was completed however was damaged during rainy season.

X. Details of Nodal Officer appointed by Chief Secretary in the State/UT: An “Environment Monitoring Cell” comprising of following officers has been formed on 19th Feb, 2020 to facilitate coordination and compliance of directions of Hon’ble NGT and assist in organizing review by the Chief Secretary:-

1. The Member Secretary, H.P. State Pollution Control Board
2. The Director, Environment, Science & Technology
3. The Director, Urban Development
4. The Joint Secretary (Env., Sci. & Technology) to Govt. of HP.

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

3 nos. of Review Meeting have been held under the Chairmanship of Worthy Chief Secretary to Govt. of H.P. in year FY 2020-21 (17.06.2020, 6.10.2020, 12.01.2021). 2 2
3nos of Review Meeting have been held under the Chairmanship of Worthy Chief Secretary to Govt. of H.P. in year FY 2021-22 (19.06.2021, 26.10.2021& 29.03.2022).

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

Details attached as Annexure-I (December 2022).

XIII. Ground water regulation:

Himachal Pradesh has enacted the Groundwater Act in 2005 to regulate extraction of groundwater in the vulnerable areas of the state, which has now been extended all over the state.

The extraction of groundwater in any form is controlled and regulated by the provisions of the act.

The State has formulated and implemented a regulatory regime to ensure and promote wise use of groundwater.

XIV. Good irrigation practices being adopted by the State:

Promotion of water use efficiency by providing piped irrigation network instead of open channel; micro irrigation through sprinklers and drip.

XV. Rain Water Harvesting:

The Jal Shakti Vibhaghas taken up water conservation initiative under various programmes like MNREGA, Sustainability component of NRDWP, CRF, D.C. Funds, AIBP, NABARD, PARVATDHARA etc.

XVI. Demarcation of Floodplain and removal of illegal encroachments:

XVII. Maintaining minimum e-flow of river:

The following steps have been taken to maintain environmental flow in the river/ Nallah

- The RTWQMS along with Radar system for water quality monitoring and flow measurement, respectively, have been installed in river Markanda near Viii Ogli, Kala Amb town and in river Kaushalya near village Kamli.
- Installation of RTWQMS at river Sirsa, the Site is identified, tendering work is in progress.
- Total 27 nos of Check Dams constructed in Sukhna (Priority-I) at Parwanoo.
- Total 45 nos of Check Dams constructed in Ashwani (Priority-V) along Yashwant Nagar.
- Total 110 nos of Check Dams constructed in Beas (Priority-V) at Mandi and Jogindarnagar.

Further, Hydro-Electric Projects (HEP) located on the catchment of rivers are mandated to ensure minimum 15% discharge of lean season flow on the downstream of the HEP into river body.

XVIII. Plantation activities along the rivers:

Priority-I (SukhnaNallah at Parwanoo)

- 2200 Plants have been planted in FY 2019-20.
- 4400 Plants have been planted in FY 2020-21

Priority-II (River Markanda at Kala Amb)

- 1600 plants have been planted in TrilokpurDevini Area in FY 2019-20
- 9600 plants planted during FY-2020-21.

Priority – III (RiverSirsa at Baddi, Nalagarh in District Solan

- 8800 plants has been planted in FY 2019-20.
- 18000 plants planted in FY2020-21.

Priority – V (River Ashwani, District- Shimla HP)

- 28600 Plants have been planted in 2019-20.
- 11000 plants have been planted in FY 2020-21.

Priority – V (River Beas from Kullu to Dehra-Gopipur at District- Kullu, Mandi, Hamirpur and Kangra of Himachal Pradesh

- 17,800 Plants are planted in FY 2019-20.
- 35,100 plants have been planted in FY2020-21

Priority – V (River Giri at Sainj, District- Shimla HP)

- 3300 Plants are planted in FY 2019-20.
- 4400 plants have been planted in FY 2020-21.

Priority – V (River Pabbar along Rohru, District- Shimla HP)

- Total 3300 Plants are planted in FY 2019-20.
- 7700 plants have been planted in FY 2020-21.

XIX. Development of biodiversity park:

- As per the Action Plan of Priority I & II, Bio-diversity Park is proposed.
- No suitable land is available for the construction of Bio-Diversity Park in catchment of Priority-I ~ SukhnaNallah.
- Setting up of Bio-diversity Park, for Priority-III (River Sirsa)
The work has been completed
- Development of Eco-Park in Paonta Sahib:
The work has been completed
- Bio-Diversity Park in Kala Amb:
Work has been completed.

XX. Reuse of Treated Water:

JSV is providing facility for bulk water user at all the STPs to enable drawing the effluent for reuse. Tertiary treatment shall also be provided as per requirement of the Bulk Users.

XXI. Model River being adopted by the State & Action Proposed for achieving the bathing quality standards:

River Beas (Kullu to Dehra Gopipur) which is currently categorized as Priority-V Polluted River Stretch in HP, upon implementation and completion of various action points mentioned in approved action plan, has shown considerable improvement in the water quality and the matter of delisting it from polluted river stretch has already been taken up with CPCB.

XXII. Status of Preparation of Action Plan by the 13 Coastal States:No coastal area in HP

XXIII. Regulation of Mining Activities in the State/UT:Mining activities are being regulated under HP Mines and Mineral Act and also Water (Prevention and Control of Pollution)Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

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

All action plans are being implemented. State Board conduct regular monitoring as per the schedule and action against polluters in terms of issuing show cause notices, power disconnection &Environmental Compensation is initiated accordingly.

The water quality of polluted rivers for month of **December, 2022:**

Entry Point

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100ml	MPN/100ml
Sukhna Nallah upstream of Parwanoo Town at Shivloti Temple, Village – Ambota	I	8.38	7.3	0.1	2.0	34
River Markanda Upstream Kala Amb	II	7.83	8.7	2.7	220	920
River Sirsa U/s Sitomajri Nallah	III	7.84	6.5	2.0	23	170
Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	7.38	--	2.2	220	920
River Beas, U/s Manali	V	7.35	8.3	0.1	23	130
River Giri at U/s Chailla	V	8.04	8.0	0.5	17	240
River Pabbar U/s Dhambari	V	8.24	9.1	0.5	21	220

Exit Point

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100ml	MPN/100ml
Sukhna Nallah D/s Water Quality at Kalka Barrier.	I	7.82	5.8	4.0	170	>1600
River Markanda D/s Jattan Wala Nallah at Sadhora	II	7.30	5.1	4.5	19500	138000
River Sirsa D/s Nalagarh Town	III	8.18	7.3	0.3	4.0	94
Ashwani Khad U/s Yashwant Nagar	V	7.96	7.8	0.1	2.0	33
River Beas (Right Bank) D/s Dehra Town)	V	8.29	8.4	0.4	7.8	130
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	7.38	--	2.2	220	920
River Pabbar D/s of TRT of Sawara Kuddu	V	7.94	8.7	0.7	26	240