

195556/2023



HP State Pollution Control Board

HIM Parivesh Bhawan, Phase-III, New Shimla-09
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वसुधैव कुटुम्बकम्
ONE EARTH - ONE FAMILY - ONE FUTURE

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

Date: 1/05/23

1151

To

Sh. D.P Mathuria
Executive Director-Technical
National Mission for Clean Ganga (NMCG), Ministry of Jal Shakti
First Floor, Major Dhyan Chand National Stadium, 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 O.A. No. 673/2018 (Polluted River Stretches) and directions by the Ministry of Jal Shakti HGoI on the above cited subject.

In this context, the monthly progress report in compliance to the aforesaid Hon'ble NGT orders for Month of Jan-Feb, 2023 and March, 2023 is hereby enclosed for your kind information and further necessary action please.

Thanking you,

sent via email.

Yours faithfully

Signed by Anil Joshi, I/s

(Date: 04/05/2023) 15:32:34

Member Secretary

H.P. State Pollution Control Board

National Mission for Clean Ganga
Format for submission of Monthly Progress Report for the Month of Jan-Feb-2023 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): 118.51 MLD

III. Details of Sewage Treatment Plant:

- Existing no. of STPs: 75
- Total Treatment Capacity of STPs (in MLD): 120.543
- Capacity Utilization of existing STPs: 82.92 MLD
- MLD of sewage being treated through Alternate technology: 35.59 Soak Pits, Septic Tanks
- Gap in Treatment Capacity in MLD: 35.59 MLD
- No. of Operational STPs: 74
- No. of Non-complying STPs: 13

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	0	STP has been closed and sewage effluent diverted to STP Barga-2	
6.	Chamba -STP at Bhagot	0.89	0.88	Operational	Complying
7.	Chamba-STP at Karian	0.49	0.3	Operational	Complying
8.	Hamirpur Town- Zone No. I	3.13	1.75	Operational	Complying

9.	Hamirpur Town - Zone No. II	1.35	1.15	Operational	Complying
10.	Hamirpur Town- Zone No. III	0.68	0.68	Operational	Non-Complying
11.	Hamirpur- STP Ward No. 11	0.57	0.2	Operational	Non-Complying
12.	Nadaun/Nagarda Nr Hospital	1.69	0.76	Operational	Complying
13.	Sewerage scheme to Sujanpur Town(Zone 1) Near HPSEB sub Station Sujanpur	1.5	1.20	Operational	Complying
14.	Sewerage scheme to Sujanpur Town(Zone II) Near Govt ITI Doli Sujanpur	1.75	0.50	Operational	Complying
15.	Dehra- Near Shamshan Ghat Dehra	1.38	0.62	Operational	Complying
16.	Jawalamukhi- Near Petrol Pump Ganju Bag	2.83	2.03	Operational	Complying
17.	Nurpur- On the left bank of Jabber Khad near Bodh	3.13	0.20	Operational	Complying
18.	Dharamshala-Chellian	5.15	3.61	Operational	Complying
19.	Dharamshala -Old Charri Road	0.2	0.17	Operational	Complying
20.	Dharamshala - Ramnagar	0.03	0.03	Operational	Complying
21.	Dharamshala-Bhagsu	0.052	0.02	Operational	Complying
22.	Dharamshala-Chellian Near Nag Mandir	0.165	0.150	Operational	Complying
23.	Dharamshala-Mela ground Gamur	1.40	0.7	Operational	Complying
24.	Nagrota (village Tharu near Baner Khad)	1.34	1.05	Operational	Complying
25.	Tanda-Right side bank of BanerKhad at Dr. RPGMG Tanda	1.4	1	Operational	Complying
26.	Kangra- STP Zone -I Near Senior Sec. School Kangra	1.68	1.58	Operational	Complying

27.	Kangra-STP Zone -II Near Bye pass Kangra	1.46	1.1	Operational	Complying
28.	Kangra- STP Zone - III Old Kangra near Fort	0.63	0.52	Operational	Complying
29.	Palampur- Left Bank of Bihral Khad Bear Insp. Hut Palampur	0.351	0.33	Operational	Complying
30.	Kullu Town- Lanka Bekar	2.57	2.42	Operational	Non-Complying
31.	Kullu Town- Bhootnath	2.5	2.36	Operational	Complying
32.	Kullu Town-Badah	0.38	0.27	Operational	Complying
33.	Manali-Near Police Station Manali (Capacity enhanced from 1.82 MLD to 3.00 MLD)	3.00	2.85	Operational	Complying
34.	Bhunter -Mela Ground	0.99	0.99	Operational	Complying
35.	Bhunter- Sarabai	0.46	0.35	Operational	Non-Complying
36.	Bhunter- Jarad	0.87	0.80	Operational	Non-Complying
37.	Jogindernagar- Village Majahrnoo	1.73	1.21	Operational	Complying
38.	Mandi –Raghnath ka Padhar	3.83	3.50	Operational	Complying
39.	Mandi- Khaliyar	0.47	0.46	Operational	Complying
40.	Sundernagar (Chandpur)	3.55	3.23	Operational	Complying
41.	Sarkaghat-Paplog Zone B	0.7	0.3	Operational	Complying
42.	Sarkaghat- Barchhwar Zone-C	1.67	1	Operational	Complying
43.	Rampur-Khopri	1	0.82	Operational	Complying
44.	Rampur-Chuhabag	0.5	0.45	Operational	Complying
45.	Rohru- Near Radha Swami Petrol Pump	1.745	1.40	Operational	Complying
46.	Jubbal- Below 22 KV Sub-Station HPSEB Jubbal Ghunglidhar (Kanhhol)	0.651	0.32	Operational	Non-Complying
47.	Kotkhai Town - Zone II	0.305	0.01	Operational	Complying
48.	Kotkhai Town - Zone III	0.163	0.01	Operational	Complying
49.	Narkanda	0.45	0.3	Operational	Complying

50.	Theog	1.15	0.05	Operational	Complying
51.	Sunni	0.65	0.05	Operational	Complying
52.	Paonta Sahib -Zone - 1 (Devi Nagar)	0.44	0.44	Operational	Non-Complying
53.	Paonta Sahib-Zone - II (Main Bazar)	1	0.6	Operational	Non-Complying
54.	Paonta Sahib-Zone - III (Jambu Ka Khalla)	1.72	0.8	Operational	Complying
55.	Solan, Shamti	2.9	1.5	Operational	Complying
56.	Parwanoo	1	0.25	Operational	Complying
57.	Arki Town	0.7	0.55	Operational	Non-Complying
58.	Baddi Town-Kenduwal	5.5	1.5	Operational	Complying
59.	Nalagarh Town-Mandiyapur	3.62	2.24	Operational	Complying
60.	Una- Chandarlok Colony for Zone D	0.65	0.24	Operational	Complying
61.	Una- Rampur for Zone A&B	2.53	0.58	Operational	Complying
62.	Mehatpur- Zone A, B, & C Basdhera	0.73	0.15	Operational	Complying
Rural Sector					
63.	Bharmour- Hadsar	0.21	0.08	Operational	Complying
64.	Marhi-Manali	0.2	0.2	Operational	Complying
65.	Sandhole Phase-I	0.31	0.15	Operational	Complying
66.	R/Peo -Sarbo	1	0.57	Operational	Complying
67.	Providing Sewerage Scheme to Sangla (Phase - II & III) in District Kinnaur (HP)	0.13	0.08	Operational	Complying
68.	Jakhri	1	0.70	Operational	Complying
69.	Kunihar	0.9	0.70	Operational	Non-Complying
	Total	91.943	58.66		

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
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1	Sanjauli Malyana (Below Malyana Bus Stand)	5.82	4.5	Operational	Non-Complying
2	Dhalli	0.76	0.76	Operational	Complying
3	North Disposal, Shimla (Golcha)	5.8	3.70	Operational	Complying
4	Snowdon (Bermu)	1.35	0.60	Operational	Non-Complying
5	Lalpani near Badagaon	11	14.00	Operational	Non-Complying
6	Summer Hill (Below Andri)	3.93	0.70	Operational	Complying
Total		28.66	24.26		

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.	Gagret	3.14	100%	June 2023
2.	Rewalsar (Chalahar)	0.35	95%	March-2023
3.	Chowari	1.1	95%	March-2023
4.	Sewerage Scheme to Rampur-Dakolar	1.16	90%	June-2023
5.	Chellian (5.15 -6.10)	6.10	90%	July 2023
6.	Sewerage Scheme to Rampur-Khaneri	1.2	95%	June-2023
7.	Chamba- Parel	0.87	80%	August-2023
8.	Santokhgarh	2.5	80%	March-2023
9.	Talai	1.65	75%	March-2023
10.	Mandi- Khaliyar	1.5	62%	June 2023
11.	Mandi –Raghunath ka Padhar	9.08	60%	June 2023
12.	Dalhousie	2.70	50%	March 2023
13.	Dharamshala –Naddi	0.144	40%	June-2023
14.	Sundernagar	4.5	40 %	March-2024
15.	Parwanoo Zone-II	1	20%	March-2023
16.	Dharamshala –Jatehar	0.06	20%	June 2023
17.	Hamirpur - Bajuri	1.06	Work Awarded (Land Dispute)	December -2024
18.	Bhota	1.5	Work Awarded (Land Dispute)	December -2024

	Rural			
19.	Trilokpur –Kheri Johron	1.5	100%	March -2023
20.	Kala Amb	1.7	100%	March -2023
21.	Bangana	0.40	100%	June-2023
22.	Rarang	0.25	95%	June-2023
23.	Chintpurni-Zone-I	0.57	90%	December -2023
24.	Holi in G P Holi	Septic Tank (7Nos)	90 %	December -2023
25.	Chintpurni-Zone-II	2.01	80%	December -2024
26.	Chintpurni-Zone-III	2.49	80%	December -2023
27.	Sewerage Scheme Hatkoti (Rural opp. Nandpur Kanch left bank of Pabbar River)	0.651	78%	December -2024
28.	Thunag	0.32	70%	April-2023
29.	Janjheli	0.64	60%	April-2023
30.	Killar	0.59	45%	December -2024
31.	Bharmour Zone-I	0.30	Work Awarded	September -2025
32.	Bharmour Zone-II	1.00	Work Awarded	September -2024
33.	Sangla (Phase IV & V)	0.063	Land acquisition for STP under process	December -2024
34.	Sangla (Phase I)	0.039	Land acquisition for STP under process	December -2024
35.	Chitkul	0.4	T/S for STP under process	December -2024
36.	Kalpa	0.42	T/S for STP under process	
37.	Keylong (Zone-I)	0.2	Under Tendering	August 2024
38.	Keylong (Zone-II & Zone-III)	0.41	Under Tendering	August 2024
39.	Udaipur Zone –I	0.22	Land dispute	August 2024
40.	Udaipur Zone –II	0.26	Land dispute	August 2024
	Total	54.047		

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	70%	18850	June, 2023
2	STP Malyana (Upgradation work)	5.2	95%	4398	Gap in capacity achieved
3	STP Dhalli (Upgradation work)	1.5	85%	1571	June, 2023
4	STP Snowdon	1.35		942	Dec, 2023

5	STP North Disposal	5.80	Retrofitting of these 3 no. of STPs is in progress 40% work completed rest is in progress	3770
6	STP Summer Hill	3.93		1885
	Total	31.98		

Details of proposed STPs in the State

Jal Shakti Vibhag

Sr. No.	Location of STP	Capacity of STP proposed (in MLD)	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
1	Nerchowk	3.36	Work awarded	As per availability of funds
2	Rajgarh	1.50	Under-Tendering	As per availability of funds
3	Banjar	1.00	Under-Tendering	As per availability of funds
4	Bajnath- Paprola	3.64	Under-Tendering	As per availability of funds
5	Chopal	0.6	Under-Tendering	As per availability of funds
6	Nerwa	0.66	A/A & E/S accorded	As per availability of funds
7	Ghumarwin (Tikkri)	0.5	A/A & E/S accorded	As per availability of funds
8	Ghumarwin (Bajohra MC Ward)	0.5		
9	Jawali Town	1.35	At DPR Stage	As per availability of funds
10	Mehatpur-Zone- E & F Basdhera	1.3	At DPR Stage	As per availability of funds
11	Chirgaon	0.70	At DPR Stage	As per availability of funds
12	Shahpur Town	1.67	At DPR stage	As per availability of funds
13	Anni	0.55	At DPR stage	As per availability of funds
14	Nirmand	0.75	At DPR stage	As per availability of funds
15	Solan-Zone-1 (Below Khundi Dhar)	6.5	At DPR stage	As per availability of funds

	near Shamti			
16	Solan-Zone -II	4.7		
17	Solan Zone -III	3.4		
18	Solan Zone -IV	1		
19	Kandaghat	1.3	At DPR stage	As per availability of funds
20	Tahliwal	1	At DPR stage	As per availability of funds
21	Daulatpur	1	At DPR stage	As per availability of funds
22	Amb	1.9	At DPR stage	As per availability of funds
23	Bilaspur - below Luxmi Narayan Temple (STP-1)	5	At DPR stage (Under AFD)	As per availability of funds
24	Bilaspur - Lower Lakhanpur (STP-2)	2		
25	Palampur	2.93	At DPR stage (Under AFD)	As per availability of funds
26	Karsog	1.80	At DPR stage (Under AFD)	As per availability of funds
27	Manali- Rangri	16.33	Tender for eligibility criteria for sewerage network opened on 19.07.2022. 3 bidders participated, 2 bidders qualified. Financial Bid opened on 11.01.2023 and under Scrutiny in the office PMU Mandi.	As per availability of funds
28	Nahan-Zone-I	4.58	At DPR stage (Under AFD)	As per availability of funds
29	Nahan –Zone-II	2.92		
30	Nahan-Zone -III	1.28		
Rural				
Sr. No.	Location of STP	Capacity of STP proposed (in MLD)	Status of Project (at DPR Stage/ Under Tendering/ Work to be Awarded)	Likely Date of Completion
31	Providing Sewerage Scheme Taklech in Tehsil Rampur	0.5	Under-Tendering	As per availability of funds
32	Providing Sewerage scheme to Udaipur Khas in GP Udaipur Tehsil & Distt. Chamba	0.48	Under Tendering	As per availability of funds
33	Providing Sewerage system to GP Baranda	0.6	Under Tendering	As per availability of funds

	in Tehsil Nurpur			funds
34	Providing Sewerage system to Jassur & adjoining area in Tehsil Nurpur	1.1	Under Tendering	As per availability of funds
35	Providing Sewerage scheme to Namgia village in G.P. Namgia Tehsil, Pooh	0.20	A/A & E/S accorded	As per availability of funds
	Providing Sewerage Scheme Kot, Rosso and Thana area in Tehsil Dharampur			
36	Kot	0.106	A/A & E/S accorded	As per availability of funds
37	Rosso	0.10		
38	Thana	0.10		
39	Providing Sewerage Scheme to Neri, Sandhole, Datwar Sohar and Ghanala in Tehsil Sandhole	0.78	A/A & E/S accorded	As per availability of funds
	Providing Sewrage Scheme Mehla in Gram Panchayat Mehla Tehsil & District Chamba			
40	Zone-I	0.100	A/A & E/S accorded	As per availability of funds
41	Zone-II	0.240		
42	Providing Sewerage Scheme Chatrari in Gram Panchayat Chatrari Tehsil & District Chamba	0.15	A/A & E/S accorded	As per availability of funds
43	Providing Sewerage scheme to village Pangri in GP Pangri Tehsil Kalpa	0.42	A/A & E/S accorded	As per availability of funds
44	Providing Sewerage scheme to Seoth Khanoud Proun Tehsil Dharampur	0.2	A/A & E/S accorded	As per availability of funds
45		0.1		
	Providing Sewerage scheme to Chowki, Rakhera and Riyur Tehsil Dharampur		A/A & E/S accorded	As per availability of funds
46	Chowki	0.171	A/A & E/S accorded	As per availability of funds
47	Rakhera	0.1		

48	Riyur	0.14		
	Providing Sewerage Scheme to Dharampur, Banwar, Richali and adjoining area in Tehsil Dharampur			
49	Dharmpur	0.3	A/A & E/S accorded	As per availability of funds
50	Banwar	0.2		
51	Richhali	0.1		
	Providing Sewerage to Pooh village, Pooh colony in GP Pooh Tehsil Pooh Distt Kinnaur			
52	Zone I	0.313	A/A & E/S accorded	As per availability of funds
53	Zone -II	0.20		
54	Providing Sewerage scheme to Nichar and EMRS Nichar in GP Nichar	0.45	A/A & E/S accorded	
	Providing Sewerage facilities including STP to Tabo and Lari adjoining area in GP Tabo			
55	Tabo	0.2	A/A & E/S accorded	As per availability of funds
56	Lari	0.13		
	Total	83.2		

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	Awarded (FCA case is in progress)	--
2	At Totu Bhariyal	2.0	Awarded (Land use transfer case with forest is in process)	--
3	STP Dhalli-II & Mashobra	2.5	At DPR Stage	--
	Total	7.6		

IV. Details of Industrial Pollution:

- No. of industries in the State: **11342**
- No. of water polluting industries in the State: **3816**
- Quantity of effluent generated from the industries in MLD: **43.7829 MLD**
- Quantity of Hazardous Sludge generated from the Industries in TPD: **7.42 MT approx.**
- Number of industrial units having ETPs: **1068 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 52.6678 MLD (including 25 MLD CETP)**
- Compliance status of the ETPs: **28 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
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 987	0.9761MLD	107 ETPs are operational	Nil

	(107 are water polluting industries)			
Bilaspur	Total 256 (21 are water polluting industries)	0.0828 MLD	16 ETPs are operational	Nil
Shimla	Total 731 (451 are water polluting industries)	0.213 MLD	33 ETPs operational	Nil
Dharamshala	Total 1770 (1610 are water polluting industries)	3.6MLD	57 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 1554 (131 are water polluting industries)	0.166 MLD	17 units have ETPs and are operational	Nil
Rampur	Total 482 (330 are water polluting industries)	0.137 MLD	7 ETPs are operational	Nil
Chamba	Total 372 (325 are water polluting industries)	0.01 MLD	2 ETPs are operational	Nil
Una	Total 954 (86 is water polluting industries)	4.36MLD	86 ETP is operational	Nil
Mandi	Total 520 (36 are water polluting industries)	0.218 MLD	24 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), biometanation, MRF etc: **352.17 TPD** waste processed, **18.28 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

Quantity of MSW generated (TPD)	Quantity of wet waste processed (TPD)	Quantity of dry waste processed (TPD)	Quantity of Inert waste processed (TPD)	Total Quantity of waste processed (TPD)	Gap in processing (TPD)	Quantity of MSW generated (TPD)	Quantity of wet waste processed (TPD)
365.60	192.99	140.90	18.28	352.17	13.43	365.60	192.99

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.

25 number of Plastic Waste Processors have been registered on CPCB EPR portal.

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).

2 number of meetings held under the Chairmanship of Additional Chief Secretary to the GoHP in FY 2022-23 (27.05.2022 & 27.10.2022)

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 (Jan 23 to Feb 23)**.

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 KangraD:\OA 673 2018\MPR\AP Pr V Beas.pptxof 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.

Annexure-I

The water quality of polluted rivers for month of **Jan, 2023**:

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	7.61	7.8	0.2	4.5	32
River Markanda Upstream Kala Amb	II	8.05	8.7	2.3	130	350
River Sirsa U/s SitomajriNallah	III	8.14	6.4	2.5	21	70
Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	8.01	7.8	1.4	110	540
River Beas, U/s Manali	V	7.54	8	0.1	33	140
River Giri at U/s Chailla	V	7.65	7.8	BDL	14	220
River Pabbar U/s Dhambari	V	7.32	8.8	BDL	17	170

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	7.89	6.2	1.8	8	70
River Markanda D/s JattanWalaNallah at Dehramli	II	7.35	5.5	3.2	3500	46000
River Sirsa D/s Nalagarh Town	III	8.07	7.1	2.4	12	49
Ashwani Khad U/s Yashwant Nagar	V	8.16	7.8	0.1	5	32
River Beas (Right Bank) D/s Dehra Town)	V	--	--	--	--	--
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	7.66	7.8	BDL	220	220
River Pabbar D/s of TRT of Sawara Kuddu	V	7.6	8.5	BDL	21	220

The water quality of polluted rivers for month of **Feb, 2023**:

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	7.48	7.6	0.4	4.5	46
River Markanda Upstream Kala Amb	II	7.92	8.4	2.6	94	350
River Sirsa U/s Sitomajri Nallah	III	7.99	6.4	2.4	27	540
Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	7.57	7.8	1.2	70	350
River Beas, U/s Manali	V	7.46	9.2	BDL	17	63
River Giri at U/s Chailla	V	7.55	7.8	BDL	14	140
River Pabbar U/s Dhambari	V	7.84	8.9	BDL	17	47

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	7.81	6.1	1.2	<1.8	33
River Markanda D/s JattanWalaNallah at Dehramli	II	7.20	5.5	12	28000	184000
River Sirsa D/s Nalagarh Town	III	7.93	7.2	1	1	220
Ashwani Khad U/s Yashwant Nagar	V	7.90	7.9	0.4	5	33
River Beas (Right Bank) D/s Dehra Town)	V	8.08	9	0.6	8.1	210
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	7.79	7.4	BDL	17	170
River Pabbar D/s of TRT of Sawara Kuddu	V	7.62	8	BDL	14	70