

**National Mission for Clean Ganga**  
**Format for submission of Monthly Progress Report 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: 6,86,4602

Urban Population: 6,88,552

Rural Population: 61,76,050

**II. Estimated Sewage Generation (MLD): 210.49 MLD**

**III. Details of Sewage Treatment Plant:**

- Existing no. of STPs: 65
- Total Treatment Capacity of STPs (in MLD): 120.496
- Capacity Utilization of existing STPs: 76.786
- MLD of sewage being treated through Alternate technology: 133.63 (Soak Pits, Septic Tanks)
- Gap in Treatment Capacity in MLD: 89.994
- No. of Operational STPs: 65
- No. of Non-complying STPs: 11

**Details of each existing STP in the State**

**Jal Shakti Vibhag**

Sr. No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (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	0.98	Operational	Complying
3	Chamba -STP Barga-1	1.501	1.501	Operational	Non-Complying
4	Chamba -STP Barga-2	0.77	0.51	Operational	Complying
5	Chamba -STP Sitla Bridge	0.2	0.2	Operational	Non-Complying
6	Chamba -STP at Bhagot	0.89	0.89	Operational	Complying
7	Chamba-STP at Karian	0.49	0.49	Operational	Complying
8	STP NIT Hamirpur	0.27	0.20	Operational	Complying
9	Hamirpur Town-Zone No. I	3.13	1.5	Operational	Complying
10	Hamirpur Town -Zone No. II	1.35	1.25	Operational	Complying

Sr. No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status
11	Hamirpur Town- Zone No. III	0.68	0.68	Operational	Complying
12	Nadaun/Nagarda Nr Hospital	1.69	0.54	Operational	Complying
13	Sewerage scheme to Sujampur Town(Zone 1) Near HPSEB sub Station Sujampur	1.5	0.88	Operational	Complying
14	Sewerage scheme to Sujampur Town(Zone II) Near Govt ITI Doli Sujampur	1.75	0.275	Operational	Complying
15	Dehra- Near Shamshan Ghat Dehra	1.38	0.3	Operational	Complying
16	Jawalamukhi- Near Petrol Pump Ganju Bag	2.83	1.88	Operational	Complying
17	Nurpur- On the left bank of Jabber Khad near Bodh	3.13	0.2	Operational	Complying
18	Dharamshala- Chellian	5.15	3.15	Operational	Complying
19	Dharamshala -Old Charri Road	0.2	0.2	Operational	Complying
20	Dharamshala -Ramnagar	0.03	0.03	Operational	Complying
21	Nagrota (village Tharu near Baner Khad)	1.34	0.85	Operational	Complying
22	Kangra- STP Zone -I Near Senior Sec. School Kangra	1.68	0.866	Operational	Complying
23	Kangra-STP Zone -II Near Bye pass Kangra	1.46	0.930	Operational	Complying
24	Kangra- STP Zone -III Old Kangra near Fort	0.63	0.314	Operational	Complying
25	Palampur- Left Bank of Bihral Khad Bear Insp. Hut Palampur	0.35	0.35	Operational	Complying
26	Tanda-Right side bank of Baner Khad at Dr. RPGMG Tanda	1.4	1.4	Operational	Complying
27	R/Peo -Sarbo	1	0.52	Operational	Complying
28	Rampur-Khopri	1	0.7	Operational	Complying
29	Rampur-Chuhabag	0.5	0.43	Operational	Complying
30	Jakhri	1	0.69	Operational	Complying
31	Rampur-Khaneri	1	0.6	Operational	Complying
32	Sarahan	0.124	0.1	Operational	Complying
33	Kullu Town- Lanka Bekar	2.57	2.57	Operational	Complying
34	Kullu Town-Bhootnath	2.5	2.5	Operational	Complying
35	Kullu Town-Badah	0.38	0.38	Operational	Non-Complying

Sr. No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status
36	Manali-Near Police Station Manali	1.82	1.82	Operational	Complying
37	Bhunter Mela Ground	0.99	0.99	Operational	Complying
38	Bhunter- Sarabai	0.46	0.46	Operational	Complying
39	Bhunter- Jarad	0.87	0.87	Operational	Complying
40	Jogindernagar-Village Majahnnoo	1.74	1.3	Operational	Complying
41	Mandi -Raghunath ka Padhar	3.83	2.5	Operational	Complying
42	Mandi- Khaliyar	0.47	0.42	Operational	Complying
43	Sundernagar (Chandpur)	3.55	3.2	Operational	Complying
44	Sarkaghat-Paplog Zone B	0.7	0.58	Operational	Complying
45	Sarkaghat-Barchhwar Zone-C	1.67	0.6	Operational	Complying
46	Rohru- Near Radha Swami Petrol Pump	1.75	1.4	Operational	Non-Complying
47	Jubbal- Below 22 KV Sub-Station HPSEB Jubbal Ghunglidhar (Kanhhol)	0.651	0.31	Operational	Non-Complying
48	Theog -Village Jatain	1.15	0.6	Operational	Complying
49	Narkanda	0.45	0.25	Operational	Complying
50	Paonta Sahib -Zone -1 (Devi Nagar)	0.44	0.4	Operational	Complying
51	Paonta Sahib-Zone -II (Main Bazar )	1	0.3	Operational	Non-Complying
52	Solan, Shamti	2.9	1.5	Operational	Complying
53	Arki Town	0.7	0.32	Operational	Complying
54	Kunihar	0.9	0.61	Operational	Complying
55	Baddi Town-Kenduwal	5.5	2.24	Operational	Complying
56	Nalagarh Town-Mandiyapur	3.62	2.4	Operational	Complying
57	Una- Chandarlok Colony for Zone D	0.65	0.13	Operational	Complying
58	Una- Rampur for Zone A&B	2.53	0.51	Operational	Complying
59	Mehatpur- Zone D Basdhera	0.1	0.08	Operational	Complying

**SJPNL**

<b>Sr. No.</b>	<b>Location</b>	<b>Existing STP Capacity (MLD)</b>	<b>Capacity Being Utilized (MLD)</b>	<b>Operational Status of STP</b>	<b>Compliance Status of STP</b>
1	Sanjauli Malyana	4.44	3.22	Operational	Non-Complying
2	Dhalli	0.76	0.76	Operational	Non-Complying
3	North Disposal, Shimla	5.8	5.80	Operational	Complying
4	Snowdon	1.35	1.35	Operational	Non-Complying
5	Lalpani	19.35	11	Operational	Non-Complying
6	Summer Hill	3.93	3.93	Operational	Non-Complying

**Details of under construction STPs in the State**

**Jal Shakti Vibhag**

<b>Sr. No.</b>	<b>Location</b>	<b>Capacity of the plant in MLD</b>	<b>Physical Progress in %</b>	<b>Status of I&amp;D or House sewer connections</b>	<b>Completion Timeline</b>
1	Talai	1.65	20%		June-2022
2	Chamba- Parel	0.87	Tender work in progress	Work awarded to the contractor and in progress	Dec-2022
3	Dalhousie	2.15	65%	Yet to be started	Sep-2022
4	Chowari	1.45	20%	Yet to be started	Sep-2022
5	Hamirpur- STP Ward No. 11	0.58	98%	Not released yet	Dec-2021
6	Dharamshala- Mela Ground Gamru	1.4	45%		June-2022
7	Dharamshala- Chellian near nag mandir	0.165	98%		June-2022
8	Dharamshala- Bhagsu near taxi stand	0.052	99%		June-2022
9	Manali-Marhi	0.2	100%	work in progress	31.10.2020 (extension applied upto 30-09-2021)
10	Rewalsar (Chalahar)	0.35	95%	Tender for Sewer network under process	June-2022
11	Sewerage Kotkhai Town/ Hospital Kotkhai-Ram Bazar Kotkhai	Zone I- Septic Tank	100%	In progress	Completed
12		Zone II-	100%	In progress	31-03-2021(extension applied upto 30-09-

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
		0.305			2021)
13		Zone II-0.163	100%	In progress	31-03-2021(extension applied upto 30-09-2021)
14	Sewerage Scheme Hatkoti (Rural opp. Nandpur Kanch left bank of Pabbar River)	0.651	70%		Oct, 2021
15	Sunni	0.65	95%	0	Sep-2022
16	Trilokpur -Kheri Johron	1.5	35%	STP & Network laying in progress	31-12-2020 (extension applied upto 30-06-2021)
17	Paonta Sahib Zone - III (Jambu ka khala)	1.72	65%	Network laying in progress	June-2021
18	Kala Amb	1.7	30%		31-12-2020 (extension applied upto 30-06-2021)
19	Parwanoo Sector 5	1	45%	Network laying in progress	31-03-2021 (extension applied upto 30-06-2021)
20	Tipra	1		Network laying in progress	31-03-2021 (extension applied upto 30-06-2021)
21	Mehatpur- Zone A,B & C -Basdhera	0.73	35%	Yet to be started	June-2021
22	Santokgarh	2.50	45%		June-2022
23	Gagret	3.14	45%	72% network laid	Dec-2022
24	Bhota	1.15	Work awarded		Dec-2022
	<b>Total</b>	<b>22.908</b>			

**Under Construction 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 Malyana (Upgradation)	5.23	20	2832 sewer connections	March, 2021
2	STP Lalpani (Upgradation)	14.2	10	7128 sewer connections	March, 2021
3	STP Totu	2	20	50 sewer connections	March, 2021
4	STP Dhalli(Upgradation)	1.5	5	250 sewer connections	March, 2021
5	STP Panthaghatti	3.1		Work Awarded	March, 2021
	<b>Total</b>	<b>26.03</b>			

**Details of proposed STPs in the State**

**Jal Shakti Vibhag**

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	Bilaspur - below Luxmi Narayan Temple (STP-1)	5	DPR proposed under AFD	Dec, 2022
2	Bilaspur - Lower Lakhanpur (STP-2)	2	DPR proposed under AFD	Dec, 2022
3	Hamirpur- Bajuri for left out area of MC Area Hamirpur	1.06	Work to be awarded	Dec-2021
4	Dharamshala -Naddi	0.15	Under Tendering	June-2022
5	Jawali Town	1.35	DPR Stage	Dec-2022
6	Bajjnath Paprola	3.64	DPR submitted for approval	Dec-2022
7	Palampur	0.45	DPR submitted for approval	Sep-2022
8	Shahpur Town	0.40	DPR Stage	Dec-2022
9	Near Manali-Rangri	16.33	Under Tendering Process	31-03-2021 (extension applied upto 30-09-2021)
10	Banjar	0.55	Under Tendering	Dec-2022
11	Anni	0.55	DPR Stage	Dec-2022
12	Nirmanand	0.75	DPR Stage	Dec-2022
13	Nerchowk	3.36	DPR Stage	Dec-2022
14	Mandi -Raghunath ka Padhar	9.08	Tender under Process	31-03-2021 (extension applied upto 30-09-2022)
15	Mandi- Khaliyar	1.5	Tender under Process	31-03-2021 (extension applied upto 30-09-2022)
16	Karsog	0.9	DPR Stage	Dec-2022
17	Rajgarh	1.5	T/S under preparation	Dec-2022
18	Nahan-Zone-I	1.00	DPR proposed under AFD	Dec-2022
19	Nahan -Zone-II	2.50	DPR proposed under AFD	Dec-2022
20	Nahan-Zone -III	1.60	DPR proposed under AFD	Dec-2022
21	Solan-Dadhog	2.5	DPR Stage	Dec-2022
22	Solan-Below Power house	1.6	DPR Stage	Dec-2022
23	Kandaghat	0.40	DPR Stage	Dec-2022
24	Mehatpur-Zone- E &F Basdhera	3.14	Under Tendering	June-2021
25	Tahliwal	1	DPR Stage	Dec-2022
26	Daulatpur	2	DPR Stage	Dec-2022
27	Amb	0.80	DPR Stage	Dec-2022
28	Chopal	0.20	DPR Stage	Dec-2022
29	Chirgaon	0.50	DPR Stage	Dec-2022

30	Nerwa	0.95	DPR Stage	Dec-2022
	<b>Total</b>	<b>67.11</b>		

**SJPNL**

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
2	STP Dhalli-2	1	At DPR Stage	March, 2023

**IV. Details of Industrial Pollution:**

- No. of industries in the State: **9542**
- No. of water polluting industries in the State: **2773**
- Quantity of effluent generated from the industries in MLD: **45.67 MLD**
- Quantity of Hazardous Sludge generated from the Industries in TPD: **37.44 MT approx.**
- Number of industrial units having ETPs: **955 ETPs are operational**
- Number of industrial units connected to CETP: **468**
- Number and total capacity of ETPs (details of existing/ under construction / proposed): **total treatment capacity 60.169 (including 25 MLD CETP)**
- Compliance status of the ETPs: 85 nos.
- Number and total capacity of CETPs (details of existing/ under construction / proposed)  
Existing: CETP Baddi (25 MLD), Proposed:, Poanta Sahib (2 MLD), Under Construction:  
CETP Kala Amb (5 MLD)  
No. of CETP existing: **1**  
No. of CETP proposed: **1**  
No. of CETP under-construction: **1**
- Status of compliance and operation of the CETPs

Sr. No.	Location	Capacity	Status
1	CETP at Kenduwal, Baddi, District-Solan (HP)	25	Operational, Non-Complying
2	CETP at Paonta Sahib, District-Sirmour HP	2	Proposed
3	CETP Kala Amb, District- Sirmour	5	Tender awarded, work in progress.

Regional Office	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
Poanta Sahib	<b>Total 1263</b> (151 are water polluting industries)	10.75 MLD	151 ETPs operational	CETP Kala Amb of capacity 5 MLD under construction Paonta Sahib of capacity 2 MLD
Parwanoo	<b>Total 1123</b> (92 are water polluting industries)	0.913 MLD	92 ETPs are operational	Nil
Bilaspur	<b>Total 10</b> (10 are water polluting industries)	0.169 MLD	9 ETPs are operational	Nil
Shimla	<b>Total 671</b> (31 are water polluting industries)	2.28 MLD	28 ETPs operational	Nil
Dharamshala	<b>Total 1522</b> (1447 are water polluting industries)	4.275 MLD	47 ETPs operational	
Baddi	<b>Total 2298</b> (567 are water polluting industries)	22 MLD	Captive ETPs 468 units connected to CETP Baddi	CETP Baddi of capacity 25 MLD is Operational
Kullu	<b>Total 1221</b> (112 are water polluting industries)	8.29 MLD	15 units have ETPs and are operational	Nil
Rampur	<b>Total 272</b> (255 are water polluting industries)	0.148 MLD	8 ETPs are operational	Nil
Chamba	<b>Total 279</b> (2 are water polluting industries)	0.011 MLD	2 ETPs are operational	Nil
Una	<b>Total 883</b> (76 are water polluting industries)	4.96955 MLD	76 ETP is operational of total capacity 10.224 MLD	Nil

#### V. Solid Waste Management:

- Total number of Urban Local Bodies and their Population: 54 ULBs and population: 7,13,100
- Current Municipal Solid Waste Generation: 374 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:

MSW processing facilities	Installed Capacity (TPD)	Utilization
Waste to Energy	200	100
Windrow Composting	30	20
Decentralized Pit Composting	85	85
Biomethanation	1	1
Organic Waste Convertor	1	1
MRF	150	150

- Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap > 20%): NA



- No. and capacity of C&D waste processing plants in TPD (existing, proposed and under construction): **Nil**
- Total no. of wards: 497
- No. of wards having door to door collection service: 497
- No. of wards practicing segregation at source : 497
- Details of MSW treatment facilities proposed and under construction (no., capacity, and technology):
- 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:
- 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**

District	ULB	Total MSW generation in TPD	Existing MSW Facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities	Completion Timeline
Bilaspur	Bilaspur	4.5	Pit composting & MRF	80%		
Bilaspur	Ghumarwin	2	Wet waste is sent to Piggery Farm & Dry waste being sent to Cement Plant.	50%	Composting pits are under construction	
Bilaspur	Naina Devi	1	Pit composting & MRF	80%	Facility complete and Operational	
Bilaspur	Talai	1	Pit composting & MRF	80%		
Chamba	Chamba	5	Pit composting & MRF	80%		
Chamba	Chowari	0.25	Pit Composting & MRF	80%		
Chamba	Dalhousie	2.5	Pit composting & MRF	80%		
Hamirpur	Bhota	0.3	Pit Composting & MRF	80%		
Hamirpur	Hamirpur	4	Pit Composting & MRF	80%		
Hamirpur	Nadaun	1.5	Pit Composting & MRF	80%		
Hamirpur	Tira Sujanpur	2	Pit Composting	80%	MRF to be developed	June, 2021
Hamirpur	Dehra	1.5	Temporary pit composting	80%	MRF to be developed	June, 2021
Hamirpur	Jawalamukhi	3	Pit Composting & MRF	80%		
Kangra	Baijnath	3	Temporary pit composting facility operational	0%	Composting Facility & MRF to be developed	June, 2021
Kangra	Dharmshala	20	Pit Composting & MRF	80%		
Kangra	Jawali	2	Temporary pit composting facility operational	0%	Composting & MRF to be developed	June, 2021
Kangra	Kangra	4.5	Pit Composting & MRF	80%		

Kangra	Nagrota Bagwan	4.34	Joint facility with MC Kangra	80%	MRF to be developed	June, 2021
Kangra	Nurpur	3.4	Composting Pits	80%	MRF to be developed	June, 2021
Kangra	Palampur	1.4	Integrated Waste Processing Facility (having OWC & MRF)	80%		
Kullu	Banjar	0.6	Composting Pits & MRF	80%		
Kullu	Bhuntar	2.18	Composting Pits	80%	MRF to be developed	June, 2021
Kullu	Kullu	7	Composting Pits & MRF	80%		
Kullu	Manali	3	Waste to Energy	25%		
Mandi	Jogindernagar	2	MRF developed	80%	Composting facility yet to be developed	June, 2021
Mandi	Karsog	5	Pit composting & MRF	80%		
Mandi	Mandi	16.5	Pit composting & MRF	70%		
Mandi	Nerchowk	8	Being sent to Mandi Waste Processing Facility	0%	Composting Facility & MRF yet to be developed	June, 2021
Mandi	Rewalsar	1	Temporary Pits	0%	Composting Facility & MRF yet to be developed	June, 2021
Mandi	Sarkaghat	2	Temporary pits	100%	Composting Facility & MRF yet to be developed	June, 2021
Mandi	Sundernagar	12	Pit Composting & MRF	70%		
Shimla	Chaupal	0.4	Temporary pits	0%	Composting Facility & MRF to be developed	June, 2021
Shimla	Jubbal	0.86	Pit Composting	100%	MRF to be developed	June, 2021
Shimla	Kotkhai	0.7	Pit Composting & MRF	80%		
Shimla	Narkanda	2.82	Pit Composting & MRF	80%		
Shimla	Rampur	3.75	Pit Composting	80%	MRF under construction	June, 2021
Shimla	Rohru	5.5	Pit Composting & MRF	100%		
Shimla	Sunni	0.25	Pit Composting & MRF	70%		
Shimla	Shimla	85	Waste to Energy	70%		
Shimla	Theog	3	Pit Composting & MRF	100%		
Sirmaur	Nahan	7	Composting Pits & MRF	70%		
Sirmaur	Paonta Sahib	8.7	Composting Pits & MRF	70%		
Sirmaur	Rajgarh	0.6	Composting Pits	100%	MRF to be developed	June, 2021
Solan	Solan	19	Pit Composting	100%	MRF to be developed	June, 2021
Solan	Arki	1	Pit Composting & MRF	80%		
Solan	Parwanoo	6	Integrated Waste Processing Facility (Composting + RDF)	50%		

Solan	Nalagarh	5	Integrated Waste Processing Facility (Composting + RDF)	50%		
Solan	Baddi	19	Integrated Waste Processing Facility (Composting + RDF)	50%		
Una	Daulatpur	1.54	Pits Composting	100%	MRF to be developed	June, 2021
Una	Gagret	1.65	Pit Composting	100%	MRF to be developed	June, 2021
Una	Mehatpur	4	Joint facility with MC Santokhgarh	100%	MRF to be developed	June, 2021
Una	Santokhgarh	4	Pit Composting & MRF	100%		
Una	Tahliwal	1.8		0%	Composting facility & MRF to be developed	June, 2021
Una	Una	4.8	Composting Pits & MRF	80%		

#### **VI. Bio-medical Waste Management:**

- Total Bio-medical generation: 3406.6 kg per day
- No. of Hospitals and Health Care Facilities: 8971
- Status of Treatment Facility/ CBMWTF:

There are three CBMWTF established at Solan, Kullu & Kangra. The CBWTF at Pardi, Kullu is temporarily closed. For proper management of biomedical waste, one new CBWTF is going to establish at Vill. Malyawar, Tehsil Ghumarwin, Distt. Bilaspur (H.P.) for which the State Board has granted Consent to Establish.

#### **VII. Hazardous Waste Management:**

- Total Hazardous Waste generation: 27807 MT per Annum (2019-20)
- No. of Industries generating Hazardous waste:- 2436 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:- 100% treated.
- Details of on-going or proposed TSDF:- There is only one TSDF in the State i.e. M/s Shivalik Solid Waste Management Ltd., Village Majra, P.O. Dobhota, Tehsil Nalagarh, Distt. Solan (H.P.) established in year 2008 with design capacity 10 Lac MT for disposal of Hazardous Waste with capacity of 50,000 MT/Annum.

#### **VIII. Plastic Waste Management:**

- Total Plastic Waste generation: 13683 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.

**IX. 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 Recator) syster 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.

**X. 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 tender work in-situ remediation in Jattan Wala Nallah (catchment of Priority-II river stretch) has been awarded and work is in progress.

**XI. Details of Nodal Officer appointed by Chief Secretary in the State/UT: An “Environment Monitoring Cell” comprising of following officers has been formed on 19<sup>th</sup> 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.

**XII. 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)

**XIII. 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.

**XIV. 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.

**XV. 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.

**XVI. Rain Water Harvesting:**

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

**XVII. Demarcation of Floodplain and removal of illegal encroachments:**

**XVIII. 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.

**XIX. Plantation activities along the rivers:**

Priority-I (Sukhna Nallah 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 Trilokpur Devini Area in FY 2019-20
- 9600 plants planted during FY-2020-21.

Priority – III ( River Sirsa 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.

**XX. 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 ~ Sukhna Nallah.
- Setting up of Bio-diversity Park, for Priority-III (River Sirsa)  
The total financial targets estimated by the Department of Forests for the years 2019-20 and 2020-21 are 25.0 Lakh and 32.0 Lakh respectively. For the financial year 2019-20, total budget amounting to Rs. 25 Lakh has been spent for Lantana eradication, forestry & ornamental plantation, renovation of ponds, Construction of path, boundary walls, contingency and gate etc. Amount of Rs 32 lakhs for FY 2020-21 has been allotted and Rs. 20 lakhs has been spent for filling, cleaning, dressing of boulders, plantations, repair work etc.
- Development of Eco-Park in Paonta Sahib:  
Plantation Ornamental & Herbal plants, Shade, Fencing plants, Walking Paths, Improvement in connectivity, Improvement in Water resources, Land levelling, Grass sowing, entrance gate, development of entry area painting, sitting benches etc.  
Total 88.77 lakhs spent out of 101 lakhs allotted.
- Bio-Diversity Park in Kala Amb:  
Rs. 55 lakhs allotted. Work of fencing completed. Tenders for entry gate, parking sites, landscaping of herbal garden, aroma garden, rock garden etc. have been invited.

**XXI. 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.

**XXII. 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.

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

**XXIV. 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.

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

All action plans are being implemented and are on track. 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, 2021**:

**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	8.50	7.4	0.1	<1.8	1.8
River Markanda Upstream Kala Amb	II	7.3	8.3	1.6	22	110
River Sirsa U/s Sitomajri Nallah	III	8.03	6.8	1.1	7.8	26
Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	7.39	6.9	2.6	27	920
River Beas, U/s Manali	V	7.78	9.7	0.1	280	84
River Giri at U/s Chailla	V	8.18	7.5	BDL	9.8	70
River Pabbar U/s Dhambari	V	8.15	8.9	BDL	6.8	40

**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	7.52	5.6	1.8	17	58
River Markanda D/s Jattan Wala Nallah at Sadhora	II	6.96	5.1	18	14000	54000
River Sirsa D/s Nalagarh Town	III	8.12	8.2	1.6	11	47
Ashwani Khad U/s Yashwant Nagar	V	7.86	8.1	0.3	6.8	22
River Beas (Right Bank) D/s Dehra Town)	V	7.98	8.8	0.3	2	26
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	8.17	7.9	1.2	4	49
River Pabbar D/s of TRT of Sawara Kuddu	V	8.03	7.6	1	22	350