



**H.P. STATE POLLUTION CONTROL BOARD**

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

Phone: 0177 2673766, 2673274 Fax: 0177 2673018



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

To

**Sh. D.P. Mathuria  
Executive Director-Technical**

National Mission for Clean Ganga, 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 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 in compliance to the aforesaid Hon'ble NGT orders, is hereby enclosed for your kind information and further necessary action please.

Thanking you,

Yours faithfully

**Encl.:** As above

**(Apoorv Devgan, IAS)  
Member Secretary  
HP State Pollution Control Board**

**Copy to:**

- 1. The Director General**, 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

I/113955/2022

necessary action please.

**(Apoorv Devgan, IAS)**  
**Member Secretary**  
**HP State Pollution Control Board**

## 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): 190.53 MLD

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

- Existing no. of STPs: 68
- Total Treatment Capacity of STPs (in MLD): 121.243
- Capacity Utilization of existing STPs in MLDs: 81.348
- MLD of sewage being treated through Alternate technology: 109.49(Soak Pits, Septic Tanks)
- Gap in Treatment Capacity in MLD: 69.28
- No. of Operational STPs: 68
- No. of Non-complying STPs: 5

#### 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	0.984	Operational	Complying
3	Chamba -STP Barga-1	1.501	1.501	Operational	Complying
4	Chamba -STP Barga-2	0.77	0.77	Operational	Complying
5	Chamba -STP Sitla Bridge	0.2	0.2	Operational	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	0.27	Operational	Complying
9	Hamirpur Town-Zone No. I	3.13	1.56	Operational	Complying
10	Hamirpur Town -Zone No. II	1.35	1.3	Operational	Complying
11	Hamirpur Town- Zone No. III	0.68	0.68	Operational	Complying
12	Nadaun/Nagarda Nr Hospital	1.69	0.68	Operational	Complying
13	Sewerage scheme to Sujampur Town(Zone 1) Near HPSEB sub	1.5	0.98	Operational	Complying

	Station Sujanpur				
14	Sewerage scheme to Sujanpur Town(Zone II) Near Govt ITI Doli Sujanpur	1.75	0.52	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	0.2	Operational	Complying
18	Dharamshala- Chellian	5.15	3.3	Operational	Complying
19	Dharamshala -Old Charri Road	0.2	0.18	Operational	Complying
20	Dharamshala -Ramnagar	0.03	0.03	Operational	Complying
21	Dharamshala Bhagsu	0.052	.03	-	
22	Dharamshala- Chellian Near Nag Mandi	0.165	0.15	-	
23	Dharamshala- Mela Ground Gamru	1.4	0.15	-	
24	Nagrota (village Tharu near Baner Khad)	1.34	1.00	Operational	Complying
25	Kangra- STP Zone -I Near Senior Sec. School Kangra	1.68	0.90	Operational	Complying
26	Kangra-STP Zone -II Near Bye pass Kangra	1.46	0.93	Operational	Complying
27	Kangra- STP Zone -III Old Kangra near Fort	0.63	0.63	Operational	Complying
28	Palampur- Left Bank of Bihral Khad Bear Insp. Hut Palampur	0.35	0.35	Operational	Complying
29	Tanda-Right side bank of Baner Khad at Dr. RPGMG Tanda	1.4	1.4	Operational	Complying
30	R/Peo -Sarbo	1	0.52	Operational	Complying
31	Seweragwe Scheme to Sangla	0.13	0.075		
	Rampur-Khopri	1	0.82	Operational	Complying
32	Rampur-Chuhabag	0.5	0.45	Operational	Complying
34	Jakhri	1	0.7	Operational	Complying
35	Sarahan	0.124	0.1	Operational	Complying
36	Kullu Town- Lanka Bekar	2.57	2.57	Operational	Complying
37	Kullu Town-Bhootnath	2.5	2.5	Operational	Complying
38	Kullu Town-Badah	0.38	0.38	Operational	Complying
39	Manali-Near Police Station Manali	1.82	1.82	Operational	<b>Non-Complying</b>
40	Bhunter Mela Ground	0.99	0.8	Operational	Complying
41	Bhunter- Sarabai	0.46	0.46	Operational	Complying
42	Bhunter- Jarad	0.87	0.7	Operational	Complying
43	Jogindernagar-Village Majahrnoo	1.74	1.3	Operational	Complying
44	Mandi -Raghunath ka Padhar	3.83	3.5	Operational	Complying
45	Mandi- Khaliyar	0.47	0.46	Operational	Complying
46	Sundernagar (Chandpur)	3.55	3.2	Operational	Complying
47	Sarkaghat-Paplog Zone B	0.7	0.58	Operational	Complying

48	Sarkaghat-Barchhwar Zone-C	1.67	0.8	Operational	Complying
49	Rohru- Near Radha Swami Petrol Pump	1.75	1.745	Operational	Complying
50	Jubbal- Below 22 KV Sub-Station HPSEB Jubbal Ghunglidhar (Kanhoh)	0.651	0.32	Operational	Complying
51	Theog -Village Jatain	1.15	0.3	Operational	Complying
52	Narkanda	0.45	0.27	Operational	Complying
53	Paonta Sahib -Zone -1 (Devi Nagar)	0.44	0.44	Operational	<b>Non-Complying</b>
54	Paonta Sahib-Zone -II (Main Bazar )	1	1	Operational	Complying
55	Solan, Shanti	2.9	1.5	Operational	Complying
56	Arki Town	0.7	0.53	Operational	Complying
57	Kunihar	0.9	0.67	Operational	Complying
58	Baddi Town-Kenduwal	5.5	1	Operational	Complying
59	Nalagarh Town-Mandiyapur	3.62	2.4	Operational	Complying
60	Una- Chandarlok Colony for Zone D	0.65	0.15	Operational	Complying
61	Una- Rampur for Zone A&B	2.53	0.58	Operational	Complying
62	Mehatpur- Zone D Basdhera	0.1	0.08	Operational	Complying
	<b>Total</b>	<b>85.613</b>	<b>56.045</b>		

### SJPNL

Sr. No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STP
1	Sanjauli Malyana	4.44	4.54	Operational	<b>Non-Complying</b>
2	Dhalli	0.76	1.21	Operational	Complying
3	North Disposal, Shimla	5.8	3.57	Operational	Complying
4	Snowdon	1.35	0.58	Operational	Complying
5	Lalpani	19.35	14.51	Operational	<b>Non-Complying</b>
6	Summer Hill	3.93	0.62	Operational	<b>Non-Complying</b>
	<b>Total</b>	<b>35.63</b>	<b>25.03</b>		

### Details of under construction STPs in the State

#### Jal Shakti Vibhag

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
1	Talai	1.65	20%	Yet to be released	June-2022
2	Chamba- Parel	0.87	75%	in progress	Dec-2022

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
3	Dalhousie	2.15	65%	Yet to be released	Sep-2022
4	Chowari	1.45	77%	Yet to be released	Sep-2022
5	Hamirpur- STP Ward No. 11	0.58	100%	100	Dec-2021
6	Hamirpur-Bajuri	1.06		Yet to be released	June-2023
7	Manali-Marhi	0.2	100%	work in progress	31.10.2020 (extension applied upto 30-09-2021)
8	Rewalsar (Chalahar)	0.35	95%	Yet to be released	June-2022
9	Sewerage Kotkhai Town/	Zone I-Septic Tank	100%	In progress	Completed
10	Hospital Kotkhai-Ram Bazar Kotkhai	Zone II-0.305	100%	In progress	31-03-2021(extension applied upto 30-09-2021)
11		Zone II-0.163	100%	In progress	31-03-2021(extension applied upto 30-09-2021)
12	Sewerage Scheme Hatkoti (Rural opp. Nandpur Kanch left bank of Pabbar River)	0.651	75%	Yet to be released	Oct, 2021
13	Sunni	0.65	98%	In progress	Sep-2022
14	Trilokpur - Kheri Johron	1.5	82%	in progress	31-12-2020 (extension applied upto 30-06-2021) Now proposed date of completion 30.09.2021
15	Paonta Sahib Zone -III (Jambu ka khala)	1.72	96%	in progress	June-2021 Now proposed date of completion 30.09.2021
16	Kala Amb	1.7	50%		31-12-2020 (extension applied upto 30-06-2021) Now proposed date of completion 30.09.2021

Sr. No.	Location	Capacity of the plant in MLD	Physical Progress in %	Status of I&D or House sewer connections	Completion Timeline
17	Parwanoo Sector 5 (Zone-II)	1	100%	in progress	31-03-2021 (extension applied upto 30-06-2021) Now proposed date of completion 30.09.2021
18	Tipra	1		in progress	31-03-2021 (extension applied upto 30-06-2021) Now proposed date of completion 30.09.2021
19	Mehatpur- Zone A,B & C - Basdhera	0.73	100%	Yet to be started	June-2021 Now proposed date of completion 30.09.2021
20	Santokgarh	2.50	45%		June-2022
21	Gagret	3.14	80%		Dec-2022
22	Bhota	1.15	Work awarded		Dec-2022
23	Sewerage scheme to Rampur Dakolar	1.16	65%		July 2023
24	Sewerage scheme to Rampur Khaneri	1.2			July 2023
25	Mandi Raghunath ka Padhar	9.08	5%	4635	31-03-2021 (extension applied upto 30-09-2022)
26	Mandi Khaliyar	1.5	5%	610	31-03-2021 (extension applied upto 30-09-2022)
27	Sundernagar	4.3	-	-	March 2023
28	Dharamshala Naddi	0.15	35%		
	<b>Total</b>	<b>41.909</b>	<b>-</b>	<b>-</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 Totu	2		1500	December, 2022
2	STP Panthaghatti	3.1		2000	December, 2022
	<b>Total</b>	<b>5.1</b>			

## Details of proposed STPs in the State

### Jal Shakti Vibhag

No.	Location	Capacity 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	Jawali Town	1.35	Estimate submitted for A/A & E/S	Dec-2022
4	Bajinath Paprola	3.64	DPR Stage	Dec-2022
5	Palampur	0.45	DPR Proposed under AFD	Sep-2022
6	Shahpur Town	0.40	DPR Stage	Dec-2022
7	Near Manali-Rangri	16.33	DPR proposed under AFD.	31-03-2021 (extension applied upto 30-09-2021)
8	Banjar	0.55	Estimate submitted for revised A/A & E/S	Dec-2022
9	Anni	0.55	DPR Stage	Dec-2022
10	Nirmand	0.75	DPR Stage	Dec-2022
11	Nerchowk	3.36	A/A & E/S accorded	Dec-2022
12	Karsog	0.9	DPR Proposed under AFD	Dec-2022
13	Rajgarh	1.5	Tenders being finalized.	Dec-2022
14	Nahan-Zone-I	1.00	DPR proposed under AFD	Dec-2022
15	Nahan -Zone-II	2.50	DPR proposed under AFD	Dec-2022
16	Nahan-Zone -III	1.60	DPR proposed under AFD	Dec-2022
17	Solan-Dadhog	2.5	DPR Stage	Dec-2022
18	Solan-Below Power house	1.6	DPR Stage	Dec-2022
19	Kandaghat	0.40	DPR Stage	Dec-2022
20	Mehatpur-Zone- E &F Basdhera	3.14	Revised estimate being prepared	
21	Tahliwal	1	DPR Stage	Dec-2022
22	Daulatpur	2	DPR Stage	Dec-2022
23	Amb	0.80	DPR Stage	Dec-2022
24	Chopal	0.20	A/A & E/S accorded	Dec-2022
25	Chirgaon	0.50	DPR submitted for revised A/A & E/S	Dec-2022
26	Nerwa	0.95	DPR Stage	Dec-2022
	<b>Total</b>	<b>54.97</b>		

### 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	STP Dhalli-2 & Mashobra	2.5	At DPR Stage	March, 2023



#### IV. Details of Industrial Pollution:

- No. of industries in the State: **10388**
- No. of water polluting industries in the State: **4550**
- Quantity of effluent generated from the industries in MLD: **42.45 MLD**
- Quantity of Hazardous Sludge generated from the Industries in TPD: **6.22 MT approx.**
- Number of industrial units having ETPs: **1062 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 54.27 MLD (including 25 MLD CETP)**
- Compliance status of the ETPs: **4 non-complying.**
- 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, <b>Complying</b>
2	CETP at Paonta Sahib, District-Sirmour HP	2	<b>Proposed</b>
3	CETP Kala Amb, District-Sirmour	5	<b>Under Construction</b> <ul style="list-style-type: none"> <li>• All essential Civil Structures/ Tanks have been completed</li> <li>• Finishing work of office/ laboratory building is in progress and shall be completed by 15.10.2021</li> <li>• Work of boundary wall completed.</li> <li>• Transformer of 200kVA procured. Platform and poles for installation of transformer done.</li> </ul>

<b>Regional Office</b>	<b>No. of industries</b>	<b>Industrial discharge</b>	<b>Status of ETPs</b>	<b>Status of CETPs (existing, under construction &amp; proposed)</b>
Poanta Sahib	<b>Total 1212</b> (153 are water polluting industries)	10.75 MLD	153 ETPs operational	<b>Under Construction:</b> CETP Kala Amb of capacity 5 MLD under construction (Phase-I 2.5 MLD) <b>Proposed:</b> Paonta Sahib of capacity 2 MLD
Parwanoo	<b>Total 1011</b> (99 are water polluting industries)	0.7492 MLD	99 ETPs are operational	Nil
Bilaspur	<b>Total 718</b> (691 are water polluting industries)	0.691 MLD	31 ETPs are operational	Nil
Shimla	<b>Total 691</b> (429 are water polluting industries)	0.213 MLD	32 ETPs operational	Nil
Dharamshala	<b>Total 1636</b> (1459 are water polluting industries)	1.414 MLD	65 ETPs operational	
Baddi	<b>Total 2443</b> (567 are water polluting industries)	23.2 MLD	Captive ETPs 468 units connected to CETP Baddi	CETP Baddi of capacity 25 MLD is Operational
Kullu	<b>Total 1370</b> (1370 are water polluting industries)	0.1516 MLD	15 units have ETPs and are operational	Nil
Rampur	<b>Total 386</b> (330 are water polluting industries)	0.132 MLD	8 EPTs are operational	Nil
Chamba	<b>Total 285</b> (2 are water polluting industries)	0.011 MLD	2 ETPs are operational	Nil
Una	<b>Total 919</b> (82 is water polluting industries)	5.14MLD	80 ETP is operational	Nil

#### **V. Solid Waste Management:**

- Total number of Urban Local Bodies and their Population: 61 ULBs and population: 7,88,156
- Current Municipal Solid Waste Generation: 370 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:

Component	Status
- <b>Aerobic microbial pit composting through Honeycomb model pits.</b>	40 ULBs
- <b>Rapid composters</b>	2 ULB
- <b>Through piggery/gaushala</b>	2 ULB.
- <b>Waste to Energy</b>	2 WtE plants at Shimla & Manali (temporarily waste of Bhuntar also going to Manali WtE plant)
- <b>Waste to reject defused fuel &amp; Composting</b>	1 plant covering 3 ULBs namely Baddi, Parwanoo & Nalagarh
- MRF developed	47 ULBs
- MRF under construction	07 ULBs

- 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 : 509
- 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

ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
61	370	370	48		Upgradation of existing facilities & development of SWM facilities in new ULBs proposed. Completion

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

- Total Bio-medical generation: 3545.78 Kg/day (As per Annual Report 2020)
- No. of Hospitals and Health Care Facilities: 9025
- 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.

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

- Total Hazardous Waste generation: 27849.4 MT for the year 2020-21
- No. of Industries generating Hazardous waste:- 2447 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.

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

- Total Plastic Waste generation: 35-40 TPD
- 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 work of in-situ remediation in Jattan Wala Nallah (catchment of Priority-II river stretch) was completed however was damaged during rainy season.

**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). **2 2** nos 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).

**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 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.

**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. 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 **November, 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	7.52	7.1	0.2	<1.8	1.8
River Markanda Upstream Kala Amb	II	8.10	8.7	1.2	40.0	350.0
River Sirsa U/s Sitomajri Nallah	III	8.32	7.0	1.1	26	94
Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	7.69	7.1	2.4	17	>1600
River Beas, U/s Manali	V	7.74	7.7	0.2	110	920
River Giri at U/s Chailla	V	8.04	7.1	BDL	14	>1600
River Pabbar U/s Dhambari	V	8.14	8.1	BDL	17	>1600

**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	6.94	5.9	2.2	33	170
River Markanda D/s Jattan Wala Nallah at Sadhora	II	7.18	6.0	4.5	3500.0	14000.0
River Sirsa D/s Nalagarh Town	III	8.24	7.4	3.4	32	240
Ashwani Khad U/s Yashwant Nagar	V	8.22	6.1	1.1	21	170
River Beas (Right Bank) D/s Dehra Town)	V	8.01	8.9	0.1	2	25
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	8.05	7.1	BDL	49	>1600
River Pabbar D/s of TRT of Sawara Kuddu	V	7.69	7.3	BDL	17	>1600

The water quality of polluted rivers for month of **December, 2021:**

**Entry Point**

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100 ml	MPN/100ml l
Sukhna Nallah upstream of Parwanoo Town at Shivloti Temple, Village – Ambota	I	Under Process				
River Markanda Upstream Kala Amb	II	7.92	8.6	1.3	33.0	170.0
River Sirsa U/s Sitomajri Nallah	III	Under Process				
Ashwani Khad w.r.t U/s of weir site of WTP near Ashwani Bridge	V	8.24	7.1	0.8	>1600	>1600
River Beas, U/s Manali	V	7.86	8.10	0.1	70	280
River Giri at U/s Chailla	V	7.31	7.1	0.6	70	>1600
River Pabbar U/s Dhambari	V	7.06	8.1	0.5	4	70

**Exit Point**

Polluted river Stretch	Priority	pH	D.O.	BOD	F.C.	T.C
			mg/l	mg/l	MPN/100 ml	MPN/100ml l
Sukhna Nallah D/s Water Quality at Kalka Barrier.	I	Under Process				
River Markanda D/s Jattan Wala Nallah at Sadhora	II	8.01	6.0	4.4	2100.0	8600.0
River Sirsa D/s Nalagarh Town	III	Under Process				
Ashwani Khad U/s Yashwant Nagar	V	Under Process				
River Beas (Right Bank) D/s Dehra Town)	V	8.07	9.3	0.2	2	17
River Giri D/s of Lift Water Supply Scheme at Sainj (at boundary District Shimla)	V	7.37	7.1	0.7	21	1600
River Pabbar D/s of TRT of Sawara Kuddu	V	6.47	7.3	0.5	9.3	1600