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BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,
PRINCIPAL BENCH, NEW DELHI
Original Application No. 200 of 2014

In the matter of: -

M.C Mehta

Applicant(s)

Versus

Union of India & Ors.

Respondent(s)

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(Filed by Adv. Rajkumar)
On behalf of Central Pollution Control Board

Place: Delhi

Dated: 04.11.2024

Compliance Report on behalf of CPCB in compliance to Hon'ble NGT Order dated 13.09.2024 in the matter of M.C. Mehta vs Union of India & Ors., O.A. No. 200/2014

This report is submitted in compliance to Hon'ble NGT order dated 13.09.2024 (**Annexure-I**) in OA No. 200/2014 titled M.C. Mehta vs Union of India & Ors. The concerned matter is related to remedying of pollution in River Ganga. The verbatim of the order is as follows:

“6. Learned Counsel for the CPCB submits that he will obtain instructions and place the complete record of drains in respect of all the districts of Jharkhand through which the river Ganga and its tributaries are flowing along with the details of outfall points and the quantity of untreated sewage flowing in river Ganga and its tributaries. He is directed to provide such details in respect of other States and also district-wise one week in advance whenever those matters are taken up.”

In compliance to the above mentioned NGT order, the district wise status of drains, sewage treatment plants and water quality of River Ganga located in the state of Uttarakhand has been provided hereunder for kind consideration please.

A. Status of Drains located in the state of Uttarakhand

CPCB along with UKPCB conducted monitoring of 176 drains discharging directly into river Ganga and Ganga forming tributaries (Alaknanda, Bhagirathi, Mandakini, Pindar and Nandakini) (151) and its tributaries (Ramganga & tributaries-18, Suswa-2, Song-3, Banganga & Sukhi-2) in Uttarakhand during post-monsoon 2023. These drains carry wastewater which comprises sewage and industrial effluent. Out of 176 monitored drains, 113 were found tapped to various STPs.

Significant BOD load was observed in one drain namely, Rispana drain discharging into Song River having flow was 755.56 MLD and BOD 32 mg/l.

The brief status of monitored drains in Uttarakhand is given in Table-1 and district wise status is given in Table-2.

Table-1: Status of drains of river Ganga and its tributaries of Uttarakhand state during Post monsoon 2023.

River name	Post-Monsoon 2023						
	Monitored Drains	Flow (MLD)	BOD Load (TPD)	Tapped Drains	Interim measure adopted	Domestic	Mixed
Ganga & Ganga forming tributaries	151	132.92	0.72	113	-	151	-
Ramganga & tributaries	18	261.00	20.96	-	-	14	4
Suswa, Song, Banganga & Sukhi	7	2851.11	38.52	-	-	5	2
Total	176	3245.03	60.20	113	-	170	6

Table-2: District wise status of drains discharging into river Ganga and its tributaries during Post monsoon 2023 in Uttarakhand

River	Monitored Drains	Flow (MLD)	BOD Load (TPD)	Tapped Drains	Interim measure adopted	Domestic	Mixed
1. Chamoli							
Alaknanda	23	-	-	17	-	23	-
Pindar	6	-	-	6	-	6	-
Nandakini	3	-	-	3	-	3	-
Total	32	-	-	26	-	32	-
2. Rudraprayag							
Alaknanda	8	-	-	7	-	8	-
Mandakini	16	2.39	0.07	-	-	16	-
Total	24	2.39	0.07	7	-	24	-
3. Pauri							

Alaknanda	24	-	-	18	-	24	-
Ganga	14	-	-	14	-	14	-
Total	38	-	-	32	-	38	-
4. Uttarkashi							
Bhagirathi	6	-	-	5	-	6	-
5. Tehri							
Ganga	25	-	-	20	-	25	-
6. Dehradun							
Ganga	6	-	-	4	-	6	-
Suswa & Song	5	2464.6	35.34	-	-	5	-
Total	11	2464.6	35.34	4	-	11	-
7. Haridwar							
Ganga	20	130.53	0.65	19	-	20	-
Banganga	1	372	2.60	-	-	-	1
Sukhi	1	14.52	0.58	-	-	-	1
Total	22	517.05	3.83	19	-	20	2
8. Udham Singh Nagar							
Ranganga & its tributaries	18	261	20.96	-	-	14	4

The district-wise names and details of drains located in the state of Uttarakhand which have potential to discharge waste water in the main stem of River Ganga is placed as **Annexure II**.

B. Status of Sewage Management in Ganga front towns in Uttarakhand

There are 53 STPs located in 19 Ganga front towns in Uttarakhand. As per CPCB monitoring carried out during the April-July,2024 in Uttarakhand, out of 53 STPs, 50 STPs were found operational and 3 STPs were found non-operational. 02 STP was found complying and 48 STPs were found non-complying w.r.t. norms prescribed by Hon'ble NGT vide order dated 30.04.2019. However, w.r.t. MoEF &

CC notified treated sewage discharge norms dated 13.10.2017, 09 STPs were found complying and 41 STPs were found non-complying.

The compliance verification of STPs are assessed on the basis of following standards:

- a. *Standards prescribed by Hon'ble NGT: Compliance based on norms prescribed by Hon 'ble NGT vide order dt 30.04.2019 in the matter of OA no. 1069/2018 (pH – 5.5-9.0, BOD <10mg/l, TSS< 20mg/l, COD< 50mg/l; Faecal Coliform – desirable <100MPN/100ml & permissible < 230 MPN/100 ml, Nitrogen-Total < 10 mg/l and Phosphorous-Total < 1.0 mg/l (TP compliance for discharge into ponds and lakes).*
- b. *Compliance as per MoEF & CC notification dt. 13.10.2017: Standards for treated sewage from STPs for cities other than metro cities, state capitals and union territories were notified as pH-6.5-9.0, BOD as 30mg/L, Total suspended solids (TSS) as less than 100mg/L and Faecal coliform as less than 1000MPN per 100mL.*

The detailed status of these 53 STPs is given below:

- Commissioned STPs - 53 (19 towns) with designed capacity – 345.3 MLD
- Operational STPs – 50 (Operational capacity -329.9 MLD) with Utilized capacity – 294.3 MLD (~89% of operational capacity)
- Compliance Status of operational STPs

	Compliance w.r.t. norms prescribed by Hon'ble NGT vide order 30.04.2019	Compliance Status w.r.t MoEF & CC norms dated 13.10.2017
Complying	2	9
Non-complying	48	41

- Non-operational STPs – 3 (Designed capacity – 15.41 MLD)
- STPs complying for Faecal Coliform norms (<230 MPN/100ml) – 10
- STPs non-complying for Faecal Coliform norms (>230 MPN/100ml) – 40
- STPs having Disinfection system– 52
- IDPL STP, Rishikesh found non-operational in last 2 monitoring (Since December 2023)
- BOD removal efficiency range: $\leq 50\%$ - 07 STPs; 50-70% - 2 STPs; 70-90% - 11 STPs and $\geq 90\%$ - 30 STPs
- STPs operating below capacity – 32 STPs (Designed capacity - 63.78 MLD: Utilized Capacity – 34.94 MLD)
- STPs operating over capacity - 6 STPs (Designed capacity - 102.12 MLD: Utilized Capacity – 117.42 MLD)
- 11 MLD STP, Banjarawala, Dehradun STP is under-construction.
- Very less flow (only 0.1-0.2 MLD) received at 1 MLD Jakhan STP in Dehradun.

The detailed status of STPs in the state of Uttarakhand is placed as **Annexure III**.

Table-3: District-wise Summary of Sewage treatment plants located in Uttarakhand

Sr. No.	District	Town	No. of STPs	Designed capacity	Operational	Utilized Capacity	Non-operational	Non-operational capacity
1	Chamoli	6	17	9.92	16	3.29	1	0.01
2	Uttarkashi	2	2	3	2	2.75	0	0
3	Pauri Garhwal	2	5	7.625	5	5.46	0	0
4	Tehri Garhwal	5	9	21.185	8	14.91	1	1.4
5	Rudraprayag	1	5	0.45	5	0.23	0	0
6	Haridwar	1	5	145	5	151.5	0	0
7	Dehradun	2	10	158.13	9	116.19	1	14
		19	53	345.31	50	294.33	3	15.41

Table-4: Operational and Compliance status of Sewage Treatment Plants in Uttarakhand

S. No.	Name of STPs	Ganga Front Town	District	Treatment Technology	Designed Capacity (MLD)	Date of Monitoring	Operational/Non-Operational Status	Compliance Status w.r.t Hon'ble NGT norms dated 30.4.2019	Compliance w.r.t . MoEF &CC norms dtd 13.10.2017
1	Gangotri	Gangotri	Uttarkashi	SBR	1	24.06.2024	Operational	Non-complying BOD, COD, TSS, TN,	Non-complying pH, BOD, TSS
2	Badrinath 1.0 MLD STP	Badrinath	Chamoli	SBR	1	16.10.2023	Operational	Complying	Complying
3	Badrinath 0.01MLD STP	Badrinath	Chamoli	MBBR	0.01	16.10.2023	Non-operational		
4	Badrinath 0.26 MLD STP	Badrinath	Chamoli	SBR	0.26	16.10.2023	Operational	Non-complying BOD, COD, TSS, TN and FC	Non-complying BOD, TSS, FC
5	Old Suspension bridge	Chamol-Gopeshwar	Chamoli	Electrocoagulation	0.05	11.06.2024	Operational	Non-complying TSS, TN, FC	Non-complying FC

6	Chamoli Ghat	Chamoli-Gopeshwar	Chamoli	Electrocoagulation	0.76	11.06.2024	Operational	Non-complying BOD, COD, TSS,TN,FC	Non-complying FC
7	Vivekanand Colony STP (Leesa Bend)	Chamoli-Gopeshwar	Chamoli	Electrocoagulation	1.19	12.06.2024	Operational	Non-complying BOD, COD, TSS,TN,FC	Non-complying TSS,FC
8	Pokhri Bend STP	Chamoli-Gopeshwar	Chamoli	Electrocoagulation	1.25	11.06.2024	Operational	Non-complying TSS,FC	Non-complying FC
9	Deen Dayal Uppadyay Park	Chamoli-Gopeshwar	Chamoli	Electrocoagulation	1.12	11.06.2024	Operational	Non-complying BOD, COD, TSS,TN	Complying
10	Pokhri, Joshimath 1.08 ML D	Joshimath	Chamoli	SBR	1.08	01.4.2024	Operational	Non-complying BOD, COD, FC	Non-complying FC
11	Marwari, Joshimath,	Joshimath	Chamoli	SBR	2.7	01.04.2024	Operational	Non-complying BOD, COD, TSS	Complying
12	Forest Nala STP	Nandprayag	Chamoli	Electrocoagulation	0.10	11.06.2024	Operational	Non-complying	Complying

								TN,TS S	
13	Sangam Nala STP	Nandprayag	Chamoli	Electrocoagulation	0.05	11.06.2024	Operational	Non-complying TSS,TN,FC	Complying
14	Near Police Chowki STP 01	Karanprayag	Chamoli	Electrocoagulation	0.05	11.06.2024	Operational	Non-complying TSS,TN,FC	Non-complying FC
15	Old Bridge STP 02	Karanprayag	Chamoli	Electrocoagulation	0.1	11.06.2024	Operational	Non-complying BOD, COD, TSS,TN,FC	Non-complying BOD,TS S,FC
16	Near Ward 1 & 3 STP 05	Karanprayag	Chamoli	Electrocoagulation	0.1	11.06.2024	Operational	Non-complying TSS,TN,FC	Non-complying FC
17	BRO Bridge STP 04	Karanprayag	Chamoli	Electrocoagulation	0.05	11.06.2024	Operational	Non-complying BOD, COD, TSS,TN,FC	Non-complying FC
18	Subhash Nagar STP 03	Karanprayag	Chamoli	Electrocoagulation	0.05	11.06.2024	Operational	Non-complying TSS,TN,FC	Non-complying FC
19	Near SBI Bank STP	Rudraprayag	Rudraprayag	Electrocoagulation	0.1	28.05.2024	Operational	Non-complying BOD, COD,	Non-complying BOD

								TSS,T N	
20	Near Dar t Pull ST P	Rudrap ayag	Rudrap rayag	Electroc oagulati on	0.075	28.05.2 024	Operational	Non-c omply ing TN,FC	Non-com plying FC
21	Army Be nd (Rudr a Compl ex) STP 02	Rudrap ayag	Rudrap rayag	Electroc oagulati on	0.1	28.05.2 024	Operational	Non-c omply ing BOD, COD, TSS,T N,FC	Non-com plying FC
22	Near Ste el Bridge	Rudrap ayag	Rudrap rayag	Electroc oagulati on	0.125	27.05.2 024	Operational	Non-c omply ing BOD, COD, TSS,F C	Non-com plying FC
23	Baleni R oad	Rudrap ayag	Rudrap rayag	Electroc oagulati on	0.05	27.05.2 024	Operational	Non-c omply ing BOD, TSS,F C	Non-com plying FC
24	Gyansu	Uttarkas hi	Uttarka shi	MBBR	2	25.06.2 024	Operational	Non-c omply ing BOD, COD, TSS,T N,FC	Non-com plying FC
25	Tehri, B hagirathi puram	Tehri	Tehri Garhw al	ASP	5	29.05.2 024	Operational	Non-c omply ing TSS,T N	Complyi ng
26	0.075 M LD STP Junior Hi	Srikot-S rinagar	Pauri G arhwal	Fluidize d Aerob ic Bed (FAB) w	0.075	15.07.2 024	Operational	Non-c omply ing	Non-com plying BOD,FC

	gh School, Srikot			ith PVA Gel media				BOD, COD, TSS, TN, FC	
27	0.05 MLD Tauli STP Srikot	Srikot-Srinagar	Pauri Garhwal	Fluidized Aerobic Bed (FAB) with PVA Gel media	0.05	15.07.2024	Operational	Non-complying TN, FC	Non-complying FC
28	Srinagar	Srinagar	Pauri Garhwal	FAB	3.5	15.07.2024	Operational	Non-complying BOD, TN, FC	Non-complying FC
29	1.0 MLD STP, Near ITI, Srinagar,	Srinagar	Pauri Garhwal	SBR	1	15.07.2024	Operational	Complying	Complying
30	Kirtinagar	Kirti Nagar	Tehri Garhwal	Fluidized Aerobic Bed (FAB) with PVA Gel media	0.05	14.07.2024	Operational	Non-complying BOD, COD, TSS, TN, FC	Non-complying BOD, FC
31	Kirtinagar	Kirti Nagar	Tehri Garhwal	FAB-PVA Gel Based	0.01	14.07.2024	Operational	Non-complying BOD, COD, TSS, TN, FC	Non-complying BOD, TS, FC
32	Bah Bazar Devprayag	Devprayag	Tehri Garhwal	SBT (Sewage Oil Bio-treatment)	1.4	14.07.2024	Non-Operational		

				technology)					
33	Sangam Bazar Devprayag	Devprayag	Tehri Garhwal	SBR	0.15	14.07.2024	Operational	Non-complying COD, BOD, TN,FC	Non-complying FC
34	Shanti Bazar Devprayag	Devprayag	Tehri Garhwal	SBR	0.075	14.07.2024	Operational	Non-complying FC	Non-complying FC
35	Tapovan	Tapovan	Tehri Garhwal	SBR	3.5	29.05.2024	Operational	Non-complying TSS,TN,FC	Non-complying FC
36	Lakkarghat, Rishikesh	Rishikesh	Dehradun	SBR	26	28.05.2024	Operational	Non-complying TN,FC	Non-complying FC
37	Muni ki Reti	Muni ki Reti	Tehri Garhwal	MBBR	3.5	29.05.2024	Operational	Non-complying TN,FC	Non-complying FC
38	Chandreshwar STP	Muni ki Reti	Tehri Garhwal	MBBR	7.5	29.05.2024	Operational	Non-complying BOD, TSS,TN,FC	Non-complying FC
39	Swarg Ashram Rishikesh	Rishikesh	Pauri Garhwal	SBR	3	28.05.2024	Operational	Non-complying BOD, COD, TN,FC	Non-complying FC
40	IDPL (Indian Drugs and Pharmaceuticals P	Rishikesh	Dehradun	ASP	14	29.05.2024	Non-operational		

	vt Ltd campus)								
41	Jagjeetpur, Haridwar (27 MLD)	Haridwar	Haridwar	SBR	27	21.05.2024	Operational	Non-complying TN,FC	Non-complying FC
42	Jagjeetpur Haridwar (68 MLD)	Haridwar	Haridwar	SBR	68	21.05.2024	Operational	Non-complying BOD, TSS, TN,FC	Non-complying FC
43	Jagjeetpur, Haridwar (18 MLD)	Haridwar	Haridwar	ASP	18	21.05.2024	Operational	Non-complying TN,FC	Non-complying FC
44	Sarai, Jawalapur STP (14 MLD)	Haridwar	Haridwar	SBR	14	20.05.2024	Operational	Non-complying TN,FC	Non-complying FC
45	Sarai, Jawalapur STP	Haridwar	Haridwar	SBR	18	20.05.2024	Operational	Non-complying TSS,FC	Non-complying FC
46	Old Mot hrowala	Dehradun	Dehradun	SBR	20	11.06.2024	Operational	Non-complying TN,FC	Non-complying FC
47	New Mo throwala	Dehradun	Dehradun	SBR	20	11.06.2024	Operational	Non-complying TN,FC	Non-complying FC
48	Kargi	Dehradun	Dehradun	SBR	68	10.06.2024	Operational	Non-complying BOD, TN,FC	Non-complying FC
49	Jakhan	Dehradun	Dehradun	SBR	1	12.06.2024	Operational	Non-complying	Complying -

								BOD, COD, TSS,T N	
50	Salawala	Dehradun	Dehradun	SBR	0.71	11.06.2024	Operational	Non-complying FC	Non-complying FC
51	Vijay Colony	Dehradun	Dehradun	SBR	0.42	11.06.2024	Operational	Non-complying TN,FC	Non-complying FC
52	Indira Nagar	Dehradun	Dehradun	SBR	5	12.06.2024	Operational	Non-complying BOD, COD, TSS, TN	Complying
53	3.0 MLD STP Plant, Bajawala, Kaulagarh, Dehradun	Dehradun	Dehradun	SBR	3	12.06.2024	Operational	Non-complying TN,FC	Non-complying FC

C. Status of water quality of River Ganga in Uttarakhand

Manual water quality monitoring of river Ganga is carried out at 19 locations under National Water Quality Monitoring Programme (NWMP) in Uttarakhand through Uttarakhand Pollution Control Board. Frequency of monitoring in Upper Ganga reaches i.e. at Gangotri, Kedarnath & Badrinath is on annual basis, from Rudraprayag to Devprayag on quarterly basis and thereafter remaining stretch i.e. from Swarg Ashram to Roorkee D/s on fortnightly basis.

River water quality is assessed for notified primary water quality criteria for bathing water w.r.t parameters pH (6.5-8.5), Dissolved Oxygen (DO) (≥ 5 mg/l),

Biochemical Oxygen Demand (BOD) (≤ 3 mg/l), Faecal Coliforms (FC) (≤ 2500 MPN/100 ml) and Faecal Streptococci (FS) (≤ 500 MPN/100 ml).

Based on the water quality data for the year 2024 (Jan-July) (median values), entire stretch of river Ganga in Uttarakhand is meeting primary water quality criteria for outdoor bathing in terms of pH, DO, BOD, FC and FS.

Table-5: Water quality data of river Ganga in Uttarakhand 2024 (Jan-July) (Median)

Station Code	Station name	pH	DO (mg/l)	BOD (mg/l)	FC (MPN/100ml)	FS (MPN/100ml)
1491	BAGIRATHI AT GANGOTRI	8.1	11.2	1	1.8	1.8
5451	RIVER MANDAKINI AT KEDARNATH	7.8	11.6	1	1.8	1.8
5452	RIVER ALAKNANDA AT BADRINATH	7.7	11.4	1	1.8	1.8
1485	MANDAKINI B/C ALAKNANDA, RUDRAPRAYAG	7.6	10.5	1.0	1.8	1.8
1484	ALAKNANDA B/C MANDAKINI, RUDRA PRAYAG	7.7	10.4	1.0	1.8	1.8
1486	ALAKNANDA A/C MANDAKINI, RUDRAPRAYAG	7.7	10.5	1.0	1.8	1.8
1488	BHAGIRATHI B/C ALAKNANDA, DEVPRAYAG	7.6	10.3	1.0	1.8	1.8
1487	ALAKNANDA B/C BHAGIRATHI, DEVPRAYAG	7.8	10.4	1.0	1.8	1.8

1489	ALAKNANDA A/C BHAGIRATHI, DEVPRAYAG	7.8	10.5	1.0	1.8	1.8
5776	RIVER GANGA AT SWARG ASHRAM, RISHIKESH	7.7	10.0	1.0	39	1.8
1060	U/S RISHIKESH	7.8	10.4	1.0	32	1.8
5777	RIVER GANGA NEAR VISTHAPHIT COLONY, RISHIKESH	7.7	9.4	1.2	40	1.8
10147	RISHIKESH D/S	7.6	10.0	1.0	33	1.8
2725	A/C SONG NEAR SATYARAYAN TEMPLE, D/S RAIWALA	7.9	8.4	1.6	49	4
10148	HARKI PAURI GHAT	7.5	9.0	1.2	79	11
3997	RIVER GANGA U/S AT ABINDUGHAT, DUDHIYABAD, HARIDWAR	7.7	8.6	1.4	79	9.2
1061	HARIDWAR D/S	7.6	8.8	1.8	94	9.2
5778	RIVER GANGA NEAR BISHANPUR KUNDI, HARIDWAR	7.6	8.6	2.0	79	11
2727	ROORKEE D/S	7.4	8.5	2.0	84	14

Ajit Kumar Vidyarthi

(A.K. Vidyarthi)

Scientist 'F'

Central Pollution Control Board

Item No. 16

Court No. 1

**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

Original Application No. 200/2014
(IA No 340/2022, MA No 872/2018, MA No
875/2014, IA No 389/2024, MA No 480/2018)

M. C. Mehta

Applicant

Versus

Union of India & Ors.

Respondent(s)

Date of hearing: 13.09.2024

**CORAM: HON'BLE MR. JUSTICE PRAKASH SHRIVASTAVA, CHAIRPERSON
HON'BLE MR. JUSTICE SUDHIR AGARWAL, JUDICIAL MEMBER
HON'BLE DR. A. SENTHIL VEL, EXPERT MEMBER**

Applicant: Ms. Katyayni, Advocate

Respondent: Mr. Gigi. C. George, Adv. with Mr. Pravin Kumar, Director, NMCG
(Through VC)
Mr. Saurabh Jain & Mr. Prayag Jain, Advs. for the State of Jharkhand
Mr. Jayesh Gaurav & Mr. Ishwar Chandra Roy, Advs. for Jharkhand
SPCB
Mr. Raj Kumar, Adv. for CPCB (Through VC)

ORDER

1. In this original application, the Tribunal is considering the issue of prevention and control of pollution in river Ganga and the matter is being taken up State-wise and District-wise.

2. Today, the matter is listed for considering the compliance status in the **State of Jharkhand**.

3. The reports on behalf of the DC, Dhanbad, Bokaro, Sahibganj and Ramgarh have been filed. The same has been examined by us. On examining reports of DCs for the Districts Sahibganj, Ramgarh, Dhanbaad and Bokaro, we find a very grim picture of sewage management. District-wise deficiencies and gaps are as follows:

1. District Sahibganj

Sahibganj

- (i) Out of 8 MLD of sewage generation in Sahibganj, 6.8 MLD is treated in two STPs of 7.0 and 5.0 MLD. However, we find that only 6.2 MLD is discharged from two STPs.
- (ii) There is no disclosure about the performance of STPs for fecal coliform. Further, 1.2 MLD is still required to be connected with existing STPs.

Rajamahala

- (i) Out of 0.97 MLD of sewage generation, 0.91 is being treated in 3.5 MLD of STP. No data is disclosed about Fecal Coliform (FC) in treated sewage.
- (ii) Water quality data of river Ganga concerning FC has not been provided.
- (iii) For 87 km of stretch of river Ganga, 54.47 sq. km area is considered a flood plain zone which is based on submergence /HFL.

2. District Ramgarh

- (i) It has been disclosed that some wards are abutting river Damodar fully or partially but the basis of saying so is not clarified.
- (ii) For treating sewage generation of 32.38 MLD two STPs of 40 MLD and one STP based on the Pond system have been set up. However, there is no disclosure of the actual utilisation of installed facilities and their performance.

3. District Dhanbaad

- (i) It is a matter of great concern that no sewage treatment facilities exist. Tenders are now floated for setting up of 192.0 MLD of STP and this indicates that untreated sewage is being discharged. Further, there is no disclosure of the generation of sewage.
- (ii) We find that a large number of Hotels are operating without CTO and PCB has only written letters on 2.3.2024 to apply for CTO. This further raises the issue that effluents from the hotels must be either seeping or being discharged into drains.

- (iii) No data has been furnished on fecal coliform present in River Damodar. Further, we find that PCB has no testing facilities for fecal coliform. We direct that, in the next three months JSPCB should set up the required facilities and undertake analysis.

4. District Bokaro

- (i) Bokaro Steel Plant township generates 31.972 MLD sewage and 6 lagoons are provided for treatment. But the final mode of disposal and its quality have not been disclosed.
- (ii) We find that Nagar Nigam Chas is generating 12.44 MLD and is discharging sewage through 70 drains into the river Ganga. This clearly reflects violations of the Water Act and the order of the Hon'ble Supreme Court dated 22.02.2017 in Paryaavaran Suraksha.
- (iii) We also find that Nagar Nigam Phusro has no sewage treatment facilities for treating 3.92 MLD. Further, water quality data of river Damodar is not disclosed for FC.

4. Learned Counsel for the Applicant has pointed out that the Central Pollution Control Board (CPCB) has details of all the drains in different districts of the states and, therefore, the details relating to the drains abutting river Ganga and its tributaries and the drains falling in Ganga and its tributaries are also available with the CPCB. She has also submitted that the details of the sewage being discharged by these drains in Ganga and its tributaries are also available on the website of CPCB.

5. We find that for last more than one year whenever the matter is taken up, CPCB is not represented. When the issue of the availability of the details was raised by Counsel for the Applicant, at that stage, Counsel for the CPCB appeared virtually.

6. Learned Counsel for the CPCB submits that he will obtain instructions and place the complete record of drains in respect of all the districts of Jharkhand through which the river Ganga and its tributaries are flowing along with the details of outfall points and the quantity of

untreated sewage flowing in river Ganga and its tributaries. He is directed to provide such details in respect of other States and also district-wise one week in advance whenever those matters are taken up.

7. Learned Counsel for National Mission for Clean Ganga (NMCG Mr. Gigi. C. George, Advocate) is also present. Nothing has been pointed out as to what action the NMCG has taken to ensure the prevention of the flow of untreated sewage in river Ganga or its tributaries, except by stating that the funds have been provided for the construction of STPs in the districts under consideration and their monitoring is done and directions issued.

8. We take note of the fact that under clause 34 of the River Ganga (Rejuvenation, Protection and Management) Authorities Order, 2016 (2016 Order) the NMCG is an empowered organization and in terms of clause 39 of the 2016 order, NMCG has the following functions to perform:

“39. Functions of National Mission for Clean Ganga.- (1) *Without prejudice to the provisions of this Order, the National Mission for Clean Ganga shall identify or cause to be identified –*

- (a) *the specific threats to the River Ganga in areas in each village and town of such specified District abutting River Ganga and its tributaries, including sewerage and industrial waste, cremation and burial of corpses and disposal of animal carcasses, and threats from commercial, recreational and religious activities;*
- (b) *the type of measures required to address such threat in each village and town of all districts abutting River Ganga and its tributaries;*
- (c) *the specific areas where such remedial actions are required to be taken for rejuvenation and protection of River Ganga and its tributaries.*
- (d) *the measures which may be necessary for reuse of treated water and enter in to Memorandum of Understanding in this regard with the Ministries of the Central Government like Railways, Power, Petroleum and Natural Gas etc., State Governments, autonomous bodies at the Central and State level, recognized Institutes and organizations which the National Mission for Clean Ganga may deem fit.*

(2). *The National Mission for Clean Ganga shall make or cause to make the River Ganga Basin Management Plan along with cost, timelines and allocation of responsibilities, among other things, for rejuvenation and protection of River Ganga and its tributaries in each village and town of specified District abutting River Ganga and its tributaries and execute projects there for.*

(3). *The National Mission for Clean Ganga shall*

- (a) *cause to be determined the magnitude of ecological flows in the River Ganga and its tributaries required to be maintained at different points in different areas at all times with the aim of ensuring water quality and environmentally sustainable rejuvenation, protection and management of River Ganga and its tributaries and notifying the same and take or direct all such measures necessary to maintain adequate ecological flows;*
- (b) *cause to be identified places where the environmental flow of water of River Ganga has been modified and take measures for correction thereof to maintain the continuous flow of water for rejuvenation, protection and management of River Ganga and its tributaries;*
- (c) *identify places of discontinuity of water in River Ganga and its tributaries due to engineered diversion of water or storage of water or by any other means and execute plans in respect thereof or take remedial action therefor;*
- (d) *devise a system to be put in place for continuous monitoring of flow of water and pollution levels in River Ganga and its tributaries;*
- (e) *take all such measures which may be necessary to give effect to the decisions of the National Ganga Council so as to maintain adequate ecological flows in the River Ganga and tributaries;*
- (f) *render assistance or cause them to be rendered by any agency for preparation of detailed project reports or execution of projects for abatement of pollution and rejuvenation, protection and management of the River Ganga and its tributaries to the State Governments, the State Ganga Committees, District Ganga Committees or local authorities or any person or body, any authority, Board or Corporation;*
- (g) *set up or facilitate setting up or designate and direct one or more existing centers to research, develop and disseminate knowledge base and analytical tools on abatement of pollution and rejuvenation, protection and management of River Ganga and its tributaries;*
- (h) *take any other measures which may be necessary for continuous flow of water and abatement of pollution in River Ganga and its tributaries*

(4) *The National Mission for Clean Ganga shall take all such other emergency measures as outlined in paragraph 7.”*

9. The powers of the NMCG have been set out in clause 41 of the 2016 order which reads as under:

“41. Powers of National Mission for Clean Ganga.- (1) *The National Mission for Clean Ganga being the national agency charged with the role, responsibility and powers to facilitate the task of rejuvenation, protection and management of River Ganga and its tributaries, under the supervision and direction of the National Ganga Council, shall recommend to the National Ganga Council or Central Government for issuing directions or issue directions itself, to the State Ganga Committees or District Ganga Committees or local authority or any other authority or any person, institution, consortium or agency, as it may decide, for the rejuvenation, protection and management of River Ganga and have the power to take all such measures and discharge such functions as it may deem necessary or expedient for prevention, control and abatement of environmental pollution in River Ganga and its tributaries so as to rejuvenate the River Ganga to its natural and pristine condition and ensure continuous and adequate flow of water in River Ganga and for protection and management of River Ganga and for matters connected therewith.*

(2) *In particular and without prejudice to the generality of the provisions of sub-paragraph (1), and save as otherwise provided in this Order, such directions may include all or any of the following matters in the management of River Ganga, namely:-*

- (a) *fulfillment of the functions mentioned in paragraph 55 in accordance with the principles in paragraph 4;*
- (b) *formulate, with the approval of the Central Government, the National policy for effective abatement of pollution and rejuvenation, protection and management of River Ganga;*
- (c) *enter into memorandum of understanding, with the approval of the Central Government, with any country or foreign agency for effective implementation of the River Ganga Basin Management Plan for rejuvenation, protection, prevention, control and abatement of pollution in the River Ganga and its tributaries;*
- (d) *approve, with or without modifications, the River Ganga Basin Management Plan and direct amendments, if any, to be made therein;*
- (e) *supervise and review the progress reports, and issue directions to the State Ganga Committees, District Ganga Committees or local authorities and other authorities in the implementation of the River Ganga Basin Management Plan and any other matter connected with affairs of the River Ganga and its tributaries;*
- (f) *approve the planning, financing and execution of programmes for abatement of pollution in the River Ganga including augmentation of sewerage and effluent treatment infrastructure, catchment area treatment, protection of flood plains, creating public awareness, conservation of aquatic and riparian life and biodiversity and such other measures for promoting environmentally sustainable river rejuvenation;*
- (g) *coordination, monitoring and review of the implementation of various programmes or activities taken up for prevention, control and abatement of pollution and*

- protection and management in the River Ganga and its tributaries;*
- (h) direct any person or authority to take measures for restoration of river ecology and management in the River Ganga Basin States;*
 - (i) recommend to the Central Government, for creation of special purpose vehicles (whether as a company under the companies Act, 2013(18 of 2013) or Societies Registration Act, 1860 (21 of 1860) or a Trust under the Indian Trust Act, 1882 (2 of 1882)), as may be considered appropriate, for implementation of this Order and for the purposes of the Act;*
 - (j) take such measures as may be necessary for the better co-ordination of policy and action to ensure effective prevention, control and abatement of pollution, rejuvenation and protection and management in the River Ganga and its tributaries;*
 - (k) issue such directions to any person or authority, as it may consider necessary, for proper or prompt execution of the projects or cancel such projects or stop release of funds or direct refund of amount already released and assign the same to any other person or authority or Board or Corporation for prompt execution thereof;*
 - (l) direct any person or authority to maintain such books of account or other documents, without prejudice to any law for the time being in force, as may be specified by the National Mission for Clean Ganga;*
 - (m) take such other measures which may be necessary for achievement of prevention, control and abatement of pollution, rejuvenation and protection and management in the River Ganga and its tributaries;*

(3) The National Mission for Clean Ganga shall have the power to issue directions mentioned under section 5 of the Act.

(4) The National Mission for Clean Ganga may evolve an appropriate mechanism for implementation of its decisions and the decisions of the National Ganga Council.”

10. Hence, we require the NMCG to appraise the Tribunal by filing a report by way of an affidavit in respect of the exercise of these powers and discharge of these duties to prevent the flowing of untreated sewage in river Ganga or its tributaries.

11. We also take note of the fact that the information provided by the different districts of the State of Jharkhand is not complete in all respects. Therefore, we require them to furnish the information in the format mentioned below:

District Wise (including city and town) information on river Ganga and Tributaries

A. Sewage Management								
(i) Sewage generation	(ii) Existing Sewage Treatment Capacities	(iii) Quantity of sewage being treated (utilization capacity)	(iv) Performance of STPs particularly for FC	(v) Reasons for Underutilisation of STPs (Connectivity of Households/ laying of sewer lines)	(vi) Current Gap in sewage treatment	(vii) Time bound plan for bridging the gap and tying up with financial arrangements and not delaying Tendering and identifying executing agencies or having any other issues	(viii) Where treated sewage is being discharged (to Ganga or tributaries)	(ix) Where untreated sewage is discharged (Drains joining Ganga/Tributaries)

District Wise (including city and town) information on river Ganga and Tributaries

B. Drains			
(i) Details of drains carrying sewage-sullage or industrial waste water joining Ganga/ tributaries and the Quantity	(ii) Drains joining outside city and town limits but either joining in village or nearby town	(iii) Inclusion of sewage flowing in drains into total sewage generation figures and their interception and diversion to STPs	(iv) Preventive steps taken for not encroachment of drains

District Wise (including city and town) information on river Ganga and Tributaries

C. Septage management (Septic tanks/soak pits)				
(i) Status of Septage management with reference to FSTP/STP	(ii) Management of Grey Water	(iii) Utilization of treated Grey water	(iv) Utilization and Disposal of Sludge	(v) Gap in sewage management and time plan

District Wise (including city and town) information on river Ganga and Tributaries

D. Industrial Pollution Control
No. of industries generating trade effluents, their place of disposal and compliance

E. District Wise (including city and town) information on river Ganga and Tributaries	
Water quality status of Ganga and its tributaries in the District and city/ town in terms of its fitness for Bathing water quality that is, FC and FS	Notification of Flood Plain Zones

District Wise (including city and town) information on river Ganga and Tributaries

F. Issues relating to Environmental Flow

12. List on 25.03.2025.

Prakash Shrivastava, CP

Sudhir Agarwal, JM

Dr. A. Senthil Vel, EM

September 13, 2024
Original Application No. 200/2014
(IA No 340/2022, MA No 872/2018, MA No
875/2014, IA No 389/2024, MA No 480/2018)
dv..

District wise drains data of Uttarakhand (Post-Monsoon 2023)

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluence to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
1.	Manav Kalyan Ashram Drain	Chamoli	Badrinath	Domestic	Alaknanda	30.7448	79.49245	Tapped	-	-	-	-
2.	Iron Bridge to Mandir drain	Chamoli	Badrinath	Domestic	Alaknanda	30.74435	79.49186	Untapped	FCM (Inaccessible location)	-	-	-
3.	BSNL Drain	Chamoli	Badrinath	Domestic	Alaknanda	30.74081	79.49311	Tapped	FCM (Seepage)	-	-	-
4.	Raturi Drain	Chamoli	Badrinath	Domestic	Alaknanda	30.74529	79.49343	Untapped	Dry	-	-	-
5.	Pindadaan ghat drain	Chamoli	Badrinath	Domestic	Alaknanda	30.74536	79.49172	Tapped	-	-	-	-
6.	Bamani Drain	Chamoli	Badrinath	Domestic	Alaknanda	30.74103	79.49225	Tapped	-	-	-	-
7.	Nav Ganga Drain	Chamoli	Joshimath	Domestic	Alaknanda	30.55856	79.56591	Partially-Tapped	FCM (Uneven surface)	-	4	29
8.	Gandhi Nagar Drain	Chamoli	Joshimath	Domestic	Alaknanda	30.5579	79.56751	Partially-Tapped	FCM (Uneven surface)	-	5	29
9.	Tehsil Nala	Chamoli	Joshimath	Domestic	Alaknanda	30.561	79.5592	Partially-Tapped	FCM (Uneven surface)	-	14	65
10.	Dronagiri Nala	Chamoli	Joshimath	Domestic	Alaknanda	30.56484	79.55275	Partially-Tapped	FCM (Uneven surface)	-	4	28
11.	Kamet Lodge Nala	Chamoli	Joshimath	Domestic	Alaknanda	30.56403	79.55547	Tapped	-	-	-	-
12.	Ravi Gram Drain	Chamoli	Joshimath	Domestic	Alaknanda	30.54914	79.58208	Untapped	FCM (Uneven surface)	-	35	113
13.	Pokhri Bend Drain	Chamoli	Chamoli-Gopeshwar	Domestic	Balkhila (Veer	30.40557	79.31183	Partially Tapped	FCM (Uneven surface)	-	21	106

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
					Ganga) to Alaknanda							
14.	Kothiyalsain Drain	Chamoli	Chamoli-Gopeshwar	Domestic	Alaknanda	30.397	79.3207	Tapped	-	-	-	-
15.	Chamoli Bazar Drain	Chamoli	Chamoli-Gopeshwar	Domestic	Alaknanda	30.41538	79.31428	Tapped	-	-	-	-
16.	Chamoli Alaknanda Ghaat Drain	Chamoli	Chamoli-Gopeshwar	Domestic	Alaknanda	30.40237	79.32911	Tapped	-	-	-	-
17.	Chamoli Bridge Drain	Chamoli	Chamoli-Gopeshwar	Domestic	Alaknanda	30.40367	79.32917	Tapped	-	-	-	-
18.	Chamoli Old Suspension Bridge Drain	Chamoli	Chamoli-Gopeshwar	Domestic	Alaknanda	30.40442	79.32915	Tapped	-	-	-	-
19.	Baitarni Drain	Chamoli	Chamoli-Gopeshwar	Domestic	Balkhila (Veer Ganga) to Alaknanda	30.41538	79.31428	Tapped	-	-	-	-
20.	Stadium Drain (New)	Chamoli	Chamoli-Gopeshwar	Domestic	Balkhila (Veer Ganga) to Alaknanda	30.40475	79.31529	Untapped	Dry	-	28	113
21.	Leesa Bend Drain (New)	Chamoli	Chamoli-Gopeshwar	Domestic	Alaknanda	30.40693	79.32989	Untapped	FCM (Uneven surface)	-	63	225
22.	Alkapuri Drain (New)	Chamoli	Chamoli-Gopeshwar	Domestic	Alaknanda	30.39901	79.3242	Untapped	FCM (Uneven surface)	-	23	105
23.	Water Tank Nala	Chamoli	Nandprayag	Domestic	Nandakini	30.32869	79.32069	Tapped	-	-	-	-
24.	Sangam Road Drain	Chamoli	Nandprayag	Domestic	Nandakini	30.33136	79.3185	Tapped	-	-	-	-
25.	Forest Office Drain	Chamoli	Nandprayag	Domestic	Nandakini	30.32732	79.32703	Tapped	-	-	-	-
26.	Police chowki drain	Chamoli	Karan Prayag	Domestic	Alaknanda	30.22614	78.81555	Tapped	-	-	-	-
27.	SBI ATM Drain	Chamoli	Karan Prayag	Domestic	Pindar	30.26175	79.21584	Tapped	-	-	-	-

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
28.	Saraswati Shishu Mandir Drain,	Chamoli	Karan Prayag	Domestic	Pindar	30.26098	79.21767	Tapped	-	-	-	-
29.	Subhash Nagar Drain	Chamoli	Karan Prayag	Domestic	Pindar	30.25721	79.2191	Tapped	-	-	-	-
30.	Ward No. 1 Drain	Chamoli	Karan Prayag	Domestic	Pindar	30.26119	79.21854	Tapped	-	-	-	-
31.	Ward No. 3 Drain	Chamoli	Karan Prayag	Domestic	Pindar	30.25777	79.22028	Tapped	-	-	-	-
32.	Naya Pull Drain	Chamoli	Karan Prayag	Domestic	Pindar	30.26267	79.21624	Tapped	-	-	-	-
33.	Near Sangam (Saraswati and Mandakini near bridge) drain	Rudrapryag	Kedarnath dham	Domestic	Mandakini	30.73233	79.06731	Untapped	FCM (lean Flow)	-	69	297
34.	Drain Sulabh Sauchalya , near under constructed STP,	Rudraprayag	Kedarnath dham	Domestic	Mandakini	30.72945	79.0687	Untapped	FCM (lean Flow)	-	9	50
35.	Drain near sulabh sauchalaya	Rudraprayag	Gaurikund	Domestic	Mandakini	30.65354	79.02754	Untapped	FCM (lean Flow)	-	23	111
36.	Gaurikund Drain at Entrance of Paidal marg near police chowki,	Rudraprayag	Gaurikund	Domestic	Mandakini	30.65298	79.02595	Untapped	FCM (Inaccessible location)	-	4	28
37.	Car parking Drain	Rudraprayag	Sonprayag	Domestic	Mandakini	30.6288	78.99959	Untapped	2.39	0.07	28	98
38.	BSNL Drain	Rudraprayag	Augustmuni	Domestic	Mandakini	30.39941	79.03742	Untapped	Dry	-	-	-
39.	Degree College darin	Rudraprayag	Augustmuni	Domestic	Mandakini	30.39896	79.03584	Untapped	FCM (lean Flow)	-	-	-
40.	Banyari Drain	Rudraprayag	Augustmuni	Domestic	Mandakini	30.39895	79.03579	Untapped	FCM (lean Flow)	-	-	-

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
41.	Talibagad ward (Vijay Nagar Nala 01)	Rudraprayag	Augustmuni	Domestic	Mandakini	30.39382	79.03172	Untapped	FCM (lean Flow)	-	4	30
42.	Drain near Jirwan Footwear (Vijay nagar Nala 3)	Rudraprayag	Augustmuni	Domestic	Mandakini	30.393	79.02846	Untapped	FCM (lean Flow)	-	76	242
43.	Patwari Chowki Drain	Rudraprayag	Augustmuni	Domestic	Mandakini	30.39141	79.02322	Untapped	FCM (lean Flow)	-	-	-
44.	GIC Nala, Tilwara	Rudraprayag	Augustmuni	Domestic	Mandakini	30.38915	79.02021	Untapped	FCM (lean Flow)	-	14	72
45.	Hospital drain near PHC	Rudraprayag	Ukhimath	Domestic	Mandakini	30.51862	79.09391	Untapped	FCM (Inaccessible location)	-	4	17
46.	Drain opposite Hotel Regenta STP	Rudraprayag	Ukhimath	Domestic	Mandakini	30.50861	79.09377	Untapped	FCM (Inaccessible location)	-	18	79
47.	Darin Near Ayush Medicos, Tilwara	Rudraprayag	Tilwara	Domestic	Mandakini	30.3429	78.97358	Untapped	FCM (lean Flow)	-	116	378
48.	Drain Near Taxi Stand, Tilwara	Rudraprayag	Tilwara	Domestic	Mandakini	30.3436	78.97442	Untapped	FCM (lean Flow)	-	37	169
49.	Beleni Nala	Rudraprayag	Rudraprayag	Domestic	Alaknanda	30.28879	78.98508	Tapped	-	-	-	-
50.	Anoop Negi Nala	Rudraprayag	Rudraprayag	Domestic	Alaknanda	30.2755	78.96738	Untapped	Dry	-	-	-
51.	Rudra Complex Nala	Rudraprayag	Rudraprayag	Domestic	Alaknanda	30.28614	78.97867	Tapped	-	-	-	-
52.	Bus Stand Nala	Rudraprayag	Rudraprayag	Domestic	Alaknanda	30.28516	78.98186	Tapped	-	-	-	-
53.	State Bank Nala	Rudraprayag	Rudraprayag	Domestic	Alaknanda	30.28602	78.98343	Tapped	-	-	-	-
54.	Masjid Nala	Rudraprayag	Rudraprayag	Domestic	Alaknanda	30.28602	78.98343	Tapped	-	-	-	-

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
55.	Steel Bridge Nala	Rudraprayag	Rudraprayag	Domestic	Alaknanda	30.28728	78.98433	Tapped	-	-	-	-
56.	Syndicate Bank Drain	Rudraprayag	Rudraprayag	Domestic	Alaknanda	30.28728	78.98433	Tapped	-	-	-	-
57.	Taulia Nala	Pauri	Srikot	Domestic	Alaknanda	30.22107	78.81127	Tapped	-	-	-	-
58.	Irish School Nala	Pauri	Srikot	Domestic	Alaknanda	30.22596	78.81581	Untapped	FCM (Uneven surface)	-	52	137
59.	Junior High School Nala	Pauri	Srikot	Domestic	Alaknanda	30.22534	78.81358	Tapped (with overflow)	FCM (Uneven surface)	-	108	303
60.	Dungryu Nala	Pauri	Srikot	Domestic	Alaknanda	30.22644	78.81851	Untapped	FCM (Uneven surface)	-	15	62
61.	Medical college Nala	Pauri	Srikot	Domestic	Alaknanda	30.2292	78.82379	Untapped	Dry	-	-	-
62.	Tiwari Mohalla drain	Pauri	Srinagar	Domestic	Alaknanda	30.22517	78.78152	Tapped (with overflow)	FCM (inaccessible location)	-	26	101
63.	Kothar nala	Pauri	Srinagar	Domestic	Alaknanda	30.22141	78.79486	Tapped	-	-	-	-
64.	New Bus Station Nala	Pauri	Srinagar	Domestic	Alaknanda	30.22721	78.7856	Tapped	-	-	-	-
65.	Convent School Drain	Pauri	Srinagar	Domestic	Alaknanda	30.22728	78.78929	Tapped	-	-	-	-
66.	Keshav Rai Math Drain	Pauri	Srinagar	Domestic	Alaknanda	30.22467	78.77847	Tapped	-	-	-	-
67.	Police Station Drain	Pauri	Srinagar	Domestic	Alaknanda	30.22431	78.79079	Tapped	-	-	-	-
68.	Dam Colony Drain	Pauri	Srinagar	Domestic	Alaknanda	30.21785	78.80338	Tapped	-	-	-	-
69.	SSB Drain	Pauri	Srinagar	Domestic	Alaknanda	30.22788	78.78754	Tapped	-	-	-	-
70.	Kedar Ghat Drain	Pauri	Srinagar	Domestic	Alaknanda	30.22465	78.77522	Tapped	-	-	-	-
71.	Pragati Vihar Drain	Pauri	Srinagar	Domestic	Alaknanda	30.22788	78.78754	Tapped	-	-	-	-
72.	Hanuman mandir drain	Pauri	Srinagar	Domestic	Alaknanda	30.2233	78.79339	Tapped	-	-	-	-
73.	Jal Colony Drain	Pauri	Srinagar	Domestic	Alaknanda	30.21912	78.79818	Tapped	-	-	-	-

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
74.	Irrigation Colony Nala	Pauri	Srinagar	Domestic	Alaknanda	30.21818	78.80001	Tapped	-	-	-	-
75.	Mahadev Temple	Pauri	Srinagar	Domestic	Alaknanda	30.21802	78.8008	Untapped	Dry	-	-	-
76.	Gas Godown Drain	Pauri	Srinagar	Domestic	Alaknanda	30.21735	78.76613	Tapped	-	-	-	-
77.	Bhakiyana Nala	Pauri	Srinagar	Domestic	Alaknanda	30.2217	78.77139	Tapped	-	-	-	-
78.	Ufalda village drain	Pauri	Srinagar	Domestic	Alaknanda	30.214	78.75369	Untapped	FCM (inaccessible location)	-	121	311
79.	Shakti Vihar	Pauri	Srinagar	Domestic	Alaknanda	30.2211	78.76638	Tapped	-	-	-	-
80.	Alaknanda Vihar Nala	Pauri	Srinagar	Domestic	Alaknanda	30.22639	78.79093	Untapped	FCM (lean flow)	-	-	-
81.	Near Baraha manjil Bhawan nala	Pauri	Swargashram	Domestic	Ganga	30.12668	78.331	Tapped	-	-	-	-
82.	Swarg Ashram Drain	Pauri	Swargashram	Domestic	Ganga	30.11522	78.3099	Tapped	-	-	-	-
83.	Vanprasath Ashram nala	Pauri	Swargashram	Domestic	Ganga	30.1176	78.31104	Tapped	-	-	-	-
84.	Near milan telecom nala	Pauri	Swargashram	Domestic	Ganga	30.1234	78.23882	Tapped	-	-	-	-
85.	Near Parmarth niketan nala	Pauri	Swargashram	Domestic	Ganga	30.11891	78.31154	Tapped	-	-	-	-
86.	Near Shanta Bhawan nala	Pauri	Swargashram	Domestic	Ganga	30.12438	78.33033	Tapped	-	-	-	-
87.	Near Geeta bhawan PNB	Pauri	Swargashram	Domestic	Ganga	30.11512	78.31071	Tapped	-	-	-	-
88.	Near Handicraft emporium	Pauri	Swargashram	Domestic	Ganga	30.12416	78.33012	Tapped	-	-	-	-
89.	Near Geeta Bhawan Gali no.-1 nala	Pauri	Swargashram	Domestic	Ganga	30.12052	78.31252	Tapped	-	-	-	-
90.	Near Ganga Hair dresser nala	Pauri	Swargashram	Domestic	Ganga	30.12169	78.31396	Tapped	-	-	-	-

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
91.	Back side of Choti wala hotel nala	Pauri	Swargashram	Domestic	Ganga	30.12214	78.31532	Tapped	-	-	-	-
92.	Near Shumani Bhawan nala	Pauri	Swargashram	Domestic	Ganga	30.12753	78.33155	Tapped	-	-	-	-
93.	Near Chouhan hotel nala	Pauri	Swargashram	Domestic	Ganga	30.12187	78.31811	Tapped	-	-	-	-
94.	Near Laxman Jhula PO nala	Pauri	Swargashram	Domestic	Ganga	30.12325	78.32846	Tapped	-	-	-	-
95.	Tiloth Nala-1	Uttarkashi	Uttarkashi	Domestic	Bhagirathi	30.72915	78.44721	Tapped	-	-	-	-
96.	Tambakhani Drain	Uttarkashi	Uttarkashi	Domestic	Bhagirathi	30.7294	78.43842	Tapped	-	-	-	-
97.	Valmiki Basti Drain	Uttarkashi	Uttarkashi	Domestic	Bhagirathi	30.72887	78.44501	Tapped	-	-	-	-
98.	Kailash Ashram Drain	Uttarkashi	Uttarkashi	Domestic	Bhagirathi	30.73349	78.44958	Untapped	FCM (lean flow)	-	48	122
99.	Nagar Palika Drain	Uttarkashi	Uttarkashi	Domestic	Bhagirathi	30.72721	78.44186	Tapped	-	-	-	-
100.	Post office Drain	Uttarkashi	Uttarkashi	Domestic	Bhagirathi	30.7268562	78.4394836	Tapped	-	-	-	-
101.	Near new Bridge Drain	Tehri	Kirtinagar	Domestic	Alaknanda	30.21417	78.74716	Tapped	-	-	-	-
102.	Near Main Market Temple Drain	Tehri	Kirtinagar	Domestic	Alaknanda	30.21415	78.7472	Tapped	-	-	-	-
103.	New drain	Tehri	Kirtinagar	Domestic	Alaknanda	30.21436	78.74935	Untapped	Dry	-	-	-
104.	Shanta Nala	Tehri	Devprayag	Domestic	Bhagirathi	30.14788	78.59733	Untapped	FCM (Uneven surface)	-	4	11
105.	Bah Bazar Drain	Tehri	Devprayag	Domestic	Alaknanda	30.14284	78.60781	Untapped	FCM (Uneven surface)	-	-	-
106.	Saraswati Nala	Tehri	Devprayag	Domestic	Alaknanda	30.14356	78.60251	Tapped	-	-	-	-
107.	Sangam Bazar Drain-1	Tehri	Devprayag	Domestic	Bhagirathi	30.1457	78.5984	Tapped	-	-	-	-

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
108.	Sangam Bazar Drain - 2	Tehri	Devprayag	Domestic	Bhagirathi	30.1461	78.5981	Tapped	-	-	-	-
109.	Koudiyala Nala	Tehri	Koudiyala	Domestic	Ganga	30.07628	78.49391	Untapped	FCM (Uneven surface)	-	34	125
110.	Shri Ram Ashram nala	Tehri	Tapovan-Rishikesh	Domestic	Ganga	30.1257	78.32871	Tapped	-	-		
111.	Lupin herbal center nala	Tehri	Tapovan-Rishikesh	Domestic	Ganga	30.12808	78.32943	Tapped	-	-		
112.	Sachha dham nala	Tehri	Tapovan-Rishikesh	Domestic	Ganga	30.12558	78.32856	Tapped	-	-		
113.	Samsan ghat Nala	Tehri	Munni ki Reti	Domestic	Ganga	30.11115	78.30496	Tapped	-	-	-	-
114.	Dhalwala Nala	Tehri	Munni ki Reti	Domestic	Ganga	30.12422	78.31413	Tapped	-	-	-	-
115.	Pracheen Hanuman Mandir nala	Tehri	Munni ki Reti	Domestic	Ganga	30.12302	78.31145	Tapped	-	-	-	-
116.	Sarwajanik Sochalya nala	Tehri	Munni ki Reti	Domestic	Ganga	30.11994	78.30793	Tapped	-	-	-	-
117.	Asian Gems and Handicraft	Tehri	Munni ki Reti	Domestic	Ganga	30.12323	78.31226	Tapped	-	-	-	-
118.	Ganga resort nala	Tehri	Munni ki Reti	Domestic	Ganga	30.11419	78.3065	Tapped	-	-		
119.	Muni Ki Reti parking nala	Tehri	Munni ki Reti	Domestic	Ganga	30.11516	78.30692	Tapped	-	-		
120.	Darshan Maha Vidhalya Nala	Tehri	Munni ki Reti	Domestic	Ganga	30.12373	78.3128	Tapped	-	-	-	-
121.	Police Guest House nala	Tehri	Munni ki Reti	Domestic	Ganga	30.12294	78.31182	Tapped	-	-		
122.	Nav Ghat nala	Tehri	Munni ki Reti	Domestic	Ganga	30.12223	78.31048	Tapped	-	-		
123.	Omkaranand public Ghat nala	Tehri	Munni ki Reti	Domestic	Ganga	30.12087	78.30817	Tapped	-	-		

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
124.	Chandreshwar Nala	Tehri	Munni ki Reti	Domestic	Ganga	30.10727	78.30835	Partially Tapped	FCM (Uneven surface)	-	37	129
125.	Khara sroat nala (Monsoon nala)	Tehri	Munni ki Reti	Domestic	Ganga	30.12087	78.30817	Untapped	Dry	-	-	-
126.	PWD nala	Dehradun	Rishikesh	Domestic	Ganga	30.10312	78.29515	Tapped	-	-	-	-
127.	Bangali Basti Nala	Dehradun	Rishikesh	Domestic	Ganga	30.10433	78.30505	Tapped	-	-	-	-
128.	Sai Ghat Nala	Dehradun	Rishikesh	Domestic	Ganga	30.0971	78.28804	Tapped	-	-	-	-
129.	Lakkar Ghat Drain	Dehradun	Rishikesh	Domestic	Ganga	30.05439	78.25413	Untapped	FCM	-	34	116
130.	IDPL Drain	Dehradun	Rishikesh	Domestic	Ganga	30.05552	78.26574	Untapped	Dry	-	-	-
131.	Opposite Sapera Basti	Dehradun	Dehradun,	Domestic	Suswa River	30.25917	78.0249	Untapped	400.25	3.20	8	38
132.	Nala near BSF camp	Dehradun	Dehradun,	Domestic	Suswa River	30.16742	78.09274	Untapped	135.91	0.95	7	34
133.	Rispana	Dehradun	Dehradun,	Domestic	Song River	30.25956	78.02984	Untapped	755.56	24.18	32	114
134.	Bindal	Dehradun	Dehradun,	Domestic	Song River	30.26032	78.02676	Untapped	1162.27	6.97	6	32
135.	Shyampur drain	Dehradun	Dehradun,	Domestic	Song River	30.06009	78.2311	Untapped	10.6	0.03	3	17
136.	Triveni Drain / Saraswati Drain	Dehradun	Rishikesh	Domestic	Ganga	30.1031	78.29838	Tapped	-	-	-	-
137.	Kassavan Nala	Haridwar	Haridwar	Domestic	Ganga	29.92074	78.10962	Tapped	-	-	-	-
138.	Pandey Wala Drain	Haridwar	Haridwar	Domestic	Ganga	29.92086	78.0974	Tapped	-	-	-	-
139.	Matrasadan Drain	Haridwar	Haridwar	Domestic	Ganga	29.91236	78.13708	Tapped	-	-	-	-
140.	Loknath Nala	Haridwar	Haridwar	Domestic	Ganga	29.97097	78.17813	Tapped	-	-	-	-
141.	Sapsarovar Nala	Haridwar	Haridwar	Domestic	Ganga	29.97101	78.1774	Tapped	-	-	-	-
142.	Bheemgoda Nala	Haridwar	Haridwar	Domestic	Ganga	29.96353	78.17291	Tapped	-	-	-	-
143.	Karoli Nala	Haridwar	Haridwar	Domestic	Ganga	29.9622	78.1727	Tapped	-	-	-	-
144.	Railway Nala	Haridwar	Haridwar	Domestic	Ganga	28.96137	78.17248	Tapped	-	-	-	-
145.	Karnwal Nala	Haridwar	Haridwar	Domestic	Ganga	28.96137	78.17248	Tapped	-	-	-	-

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
146.	Kangra Mandir Nala	Haridwar	Haridwar	Domestic	Ganga	29.95809	78.1716	Tapped	-	-	-	-
147.	Nai Sota Nala	Haridwar	Haridwar	Domestic	Ganga	29.95543	78.17039	Tapped	-	-	-	-
148.	Nago ki Haweli Nala	Haridwar	Haridwar	Domestic	Ganga	29.95466	78.16978	Tapped	-	-	-	-
149.	Kushaghat Nala	Haridwar	Haridwar	Domestic	Ganga	29.95331	78.16834	Tapped	-	-	-	-
150.	Laltarao Nala	Haridwar	Haridwar	Domestic	Ganga	29.94956	78.15964	Tapped	-	-	-	-
151.	Mayapur Nala	Haridwar	Haridwar	Domestic	Ganga	29.94323	78.15564	Tapped	-	-	-	-
152.	Devapura Nala	Haridwar	Haridwar	Domestic	Ganga	29.94073	78.14563	Tapped	-	-	-	-
153.	Awas Vikas Nala	Haridwar	Haridwar	Domestic	Ganga	29.9314	78.13709	Tapped	-	-	-	-
154.	Lal Mandir Nala	Haridwar	Haridwar	Domestic	Ganga	29.92092	78.11365	Tapped	-	-	-	-
155.	Surodya Nala	Haridwar	Haridwar	Domestic	Ganga	29.9598	78.17194	Tapped	-	-	-	-
156.	Jagjeetpur STP Drain	Haridwar	Haridwar	Domestic	Ganga	29.89852	78.14097	Untapped	130.53	0.65	5	27
157.	Rawlirao drain	Haridwar	Haridwar	Mixed	Shukhi river	29.93864	78.08441	Untapped	14.52	0.58	40	149
158.	Laksar Drain	Haridwar	Laksar	Mixed	Banganga river	29.62947	78.01801	Untapped	372	2.60	7	40
159.	Kalash Mandap Drain, Kashipur	U.S. Nagar	Kashipur	Domestic	Dhela	29.20149	78.94815	Untapped	6.97	0.36	52	164
160.	Lakshmpur Minor Drain, Kashipur	U.S. Nagar	Kashipur	Domestic	Dhela	29.20243	78.94704	Untapped	10	1.12	112	287
161.	Belijudi Drain, Kashipur	U.S. Nagar	Kashipur	Domestic	Dhela	29.2247	78.94521	Untapped	Stagnant	-	-	-
162.	Gabia Drain, Kashipur	U.S. Nagar	Kashipur	Domestic	Dhela	29.21326	78.94775	Untapped	12.04	1.23	102	281
163.	Ice Factory Drain, Kashipur	U.S. Nagar	Kashipur	Domestic	Dhela	29.21062	78.94824	Untapped	4.03	0.41	101	364
164.	Mukundpur Nala, Kashipur	U.S. Nagar	Kashipur	Domestic	Kosi	29.15786	79.03805	Untapped	FCM (lean Flow)	-	38	127

S. No.	Name of Drain	District	Towns/City in Catchment/nearby	Pollution Sources (Domestic/Mixed/Industrial)	Confluences to River	Sampling location		Tapped/Untapped (T/UT)	Flow (MLD)	BOD Load (TPD)	BOD (mg/l)	COD (mg/l)
						Latitude	Longitude					
165.	Jaspur Khurd Drain, Kashipur	U.S. Nagar	Kashipur	Domestic	Bahela	29.21291	78.98178	Untapped	3	0.23	76	286
166.	Jaspur Khurd Drain-02, Kashipur	U.S. Nagar	Kashipur	Domestic	Bahela	29.21224	78.98749	Untapped	16.8	0.79	47	155
167.	Hempur Ismail Drain, Kashipur	U.S. Nagar	Kashipur	Mixed	Bahela	29.18566	78.99835	Untapped	0.42	0.08	194	695
168.	Mukundpur Drain No. 02, Kashipur	U.S. Nagar	Kashipur	Domestic	Kosi	29.15799	79.03419	Untapped	FCM (lean Flow)	-	-	-
169.	Kharmasi Drain, Kashipur	U.S. Nagar	Kashipur	Domestic	Bahela	29.21892	78.99328	Untapped	11.06	0.07	6	36
170.	Pachchana Drain, Kashipur	U.S. Nagar	Kashipur	Mixed	Dhela	29.19748	78.91689	Untapped	41.47	2.74	66	192
171.	Dhandi Drain, Kashipur	U.S. Nagar	Kashipur	Mixed	Dhela	29.1948	78.88706	Untapped	129.02	12.13	94	339
172.	Ghoga Nala, Bazpur, Kashipur	U.S. Nagar	Bazpur	Mixed	Pilakhar	29.13384	79.12615	Untapped	24.25	1.48	61	136
173.	Bankhandi Mandir Nala (Left)	U.S. Nagar	Kiccha	Domestic	Gaula	28.90935	79.52271	Untapped	0.31	0.08	249	404
174.	Shiv mandir Nala (Right)	U.S. Nagar	Kiccha	Domestic	Gaula	28.90664	79.52531	Untapped	1.63	0.26	157	223
175.	Badi Mohalla Nala	U.S. Nagar	Kiccha	Domestic	Gaula	28.90946	79.52302	Untapped	Dry	-	-	-
176.	Ukrouli Drain or Odheri Nala	U.S. Nagar	Kashipur	Domestic	Nandhaur to Garra	28.90855	79.71688	Untapped	FCM (Dense Vegetation)	-	17	70
Total									3245.03	60.2		

FCM= Flow could not be measured

- STPs complying to BOD Norms (≤ 10 mg/l) in Uttarakhand (April-July,2024) w.r.t. NGT and MoEF&CC norms

S.No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	BOD (≤ 10 mg/l)
1.	Badrinath 1.0 MLD STP	Badrinath	1	3
2.	Old Suspension bridge	Chamoli-Gopeshwar	0.05	5
3.	Pokhri Bend STP	Chamoli-Gopeshwar	1.25	8
4.	Forest Nala STP	Nandprayag	0.10	5
5.	Sangam Nala STP	Nandprayag	0.05	1.5
6.	Near Police Chowki STP 01	Karanprayag	0.05	4
7.	Near Ward 1 & 3 STP 05	Karanprayag	0.1	7
8.	Subhash Nagar STP 03	Karanprayag	0.05	3
9.	Near Dart Pull STP	Rudraprayag	0.075	6
10.	Tehri, Bhagirathipuram	Tehri	5	4
11.	0.05 MLD Taulia STP Srikot	Srikot-Srinagar	0.05	3
12.	1.0 MLD STP, Near ITI, Srinagar,	Srinagar	1	2
13.	Shanti Bazar Devprayag	Devprayag	0.075	3
14.	Tapovan	Tapovan	3.5	8
15.	Lakkarghat, Rishikesh	Rishikesh	26	5
16.	Muni ki Reti	Muni ki Reti	3.5	2
17.	Jagjeetpur, Haridwar (27 MLD)	Haridwar	27	4
18.	Jagjeetpur, Haridwar (18 MLD)	Haridwar	18	3
19.	Sarai, Jawalapur STP (14 MLD)	Haridwar	14	8
20.	Sarai, Jawalapur STP	Haridwar	18	BDL
21.	Old Mothrowala	Dehradun	20	BDL
22.	New Mothrowala	Dehradun	20	3
23.	Salawala	Dehradun	0.71	6
24.	Vijay Colony	Dehradun	0.42	3
25.	3.0 MLD STP Plant, Bajawala, Kaulagarh, Dehradun	Dehradun	3	3

- STPs complying to BOD Norms (11-30mg/l) in Uttarakhand (April-July, 2024) w.r.t. MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity	BOD (11 mg/l to 30 mg/l)
1	Chamoli Ghat	Chamoli-Gopeshwar	0.76	30
2	Vivekanand Colony STP (Leesa Bend)	Chamoli-Gopeshwar	1.19	21
3	Deen Dayal Uppadyay Park	Chamoli-Gopeshwar	1.12	15
4	Pokhri, Joshimath 1.08 MLD	Joshimath	1.08	24
5	Marwari, Joshimath,	Joshimath	2.7	24
6	BRO Bridge STP 04	Karanprayag	0.05	19
7	Army Bend (Rudra Complex) STP 02	Rudraprayag	0.1	11
8	Near Steel Bridge	Rudraprayag	0.125	13
9	Baleni Road	Rudraprayag	0.05	11
10	Gyansu	Uttarkashi	2	29
11	Srinagar	Srinagar	3.5	14
12	Sangam Bazar Devprayag	Devprayag	0.15	17
13	Chandreshwar STP	Muni ki Reti	7.5	24
14	Swarg Ashram Rishikesh	Rishikesh	3	11
15	Jagjeetpur Haridwar (68 MLD)	Haridwar	68	11
16	Kargi	Dehradun	68	13
17	Jakhan	Dehradun	1	15
18	Indira Nagar	Dehradun	5	13

- STPs non-complying to BOD Norms (> 30mg/l) in Uttarakhand (April-July, 2024) w.r.t. NGT and MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity	BOD (> 30 mg/l)
1	Gangotri	Gangotri	1	516
2	Badrinath 0.26 MLD STP	Badrinath	0.26	142
3	Old Bridge STP 02	Karanprayag	0.1	102
4	Near SBI Bank STP	Rudraprayag	0.1	60
5	0.075 MLD STP Junior High School, Srikot	Srikot-Srinagar	0.075	31
6	Kirtinagar	Kirti Nagar	0.05	41
7	Kirtinagar	Kirti Nagar	0.01	150

- STPs complying to COD (≤ 50 mg/l) in Uttarakhand (April-July, 2024) w.r.t. NGT Norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	COD (≤ 50 mg/l)
1	Badrinath 1.0 MLD STP	Badrinath	1	21
2	Old Suspension bridge	Chamoli-Gopeshwar	0.05	12
3	Pokhri Bend STP	Chamoli-Gopeshwar	1.25	40
4	Forest Nala STP	Nandprayag	0.1	17
5	Sangam Nala STP	Nandprayag	0.05	9
6	Near Police Chowki STP 01	Karanprayag	0.05	19
7	Near Ward 1 & 3 STP 05	Karanprayag	0.1	40
8	Subhash Nagar STP 03	Karanprayag	0.05	26
9	Near Dart Pull STP	Rudraprayag	0.075	17
10	Baleni Road	Rudraprayag	0.05	42
11	Tehri	Tehri	5	39
12	0.05 MLD Taulia STP Srikot	Srikot-Srinagar	0.05	28
13	Srinagar	Srinagar	3.5	47
14	1.0 MLD STP, Near ITI, Srinagar,	Srinagar	1	6
15	Shanti Bazar Devprayag	Devprayag	0.075	21

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	COD (≤ 50 mg/l)
16	Tapovan	Tapovan	3.5	33
17	Lakkarghat, Rishikesh	Rishikesh	26	36
18	Muni ki Reti	Muni ki Reti	3.5	7
19	Chandreshwar STP	Muni ki Reti	7.5	50
20	Jagjeetpur, Haridwar (27 MLD)	Haridwar	27	9
21	Jagjeetpur Haridwar (68 MLD)	Haridwar	68	33
22	Jagjeetpur, Haridwar (18 MLD)	Haridwar	18	7
23	Sarai, Jawalapur STP (14 MLD)	Haridwar	14	37
24	Sarai, Jawalapur STP	Haridwar	18	BDL
25	Old Mothrowala	Dehradun	20	22
26	New Mothrowala	Dehradun	20	16
27	Kargi	Dehradun	68	26
28	Salawala	Dehradun	0.71	44
29	Vijay Colony	Dehradun	0.42	44
30	3.0 MLD STP Plant, Bajawala, Kaulagarh	Dehradun	3	17

• STPs non-complying to COD (≥ 50 mg/l) in Uttarakhand (April-July, 2024) w.r.t. NGT norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	COD (≥ 50 mg/l)
1	Gangotri	Gangotri	1	808
2	Badrinath 0.26 MLD STP	Badrinath	0.26	336
3	Chamoli Ghat	Chamoli-Gopeshwar	0.76	160
4	Vivekanand Colony STP (Leesa Bend)	Chamoli-Gopeshwar	1.19	187
5	Deen Dayal Uppadyay Park	Chamoli-Gopeshwar	1.12	78
6	Pokhri, Joshimath 1.08 MLD	Joshimath	1.08	88
7	Marwari, Joshimath,	Joshimath	2.7	93
8	Old Bridge STP 02	Karanprayag	0.1	265
9	BRO Bridge STP 04	Karanprayag	0.05	90
10	Near SBI Bank STP	Rudraprayag	0.1	138
11	Army Bend (Rudra Complex) STP 02	Rudraprayag	0.1	53
12	Near Steel Bridge	Rudraprayag	0.125	53
13	Gyansu	Uttarkashi	2	86
14	0.075 MLD STP Junior High School, Srikot	Srikot-Srinagar	0.075	95
15	Kirtinagar	Kirti Nagar	0.05	76
16	Kirtinagar	Kirti Nagar	0.01	341
17	Sangam Bazar Devprayag	Devprayag	0.15	66
18	Swarg Ashram Rishikesh	Rishikesh	3	55
19	Jakhan	Dehradun	1	220
20	Indira Nagar	Dehradun	5	58

• STPs complying to TSS (≤ 20 mg/l) in Uttarakhand (April-July, 2024) w.r.t. NGT and MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (≤ 20 mg/l)
1.	Badrinath 1.0 MLD STP	Badrinath	1	16
2.	Pokhri, Joshimath 1.08 MLD	Joshimath	1.08	13
3.	Near Dart Pull STP	Rudraprayag	0.075	20
4.	0.05 MLD Taulia STP Srikot	Srikot-Srinagar	0.05	16
5.	Srinagar	Srinagar	3.5	13

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (≤ 20 mg/l)
6.	1.0 MLD STP, Near ITI, Srinagar,	Srinagar	1	13
7.	Sangam Bazar Devprayag	Devprayag	0.15	18
8.	Shanti Bazar Devprayag	Devprayag	0.075	10
9.	Lakkarghat, Rishikesh	Rishikesh	26	BDL
10.	Muni ki Reti	Muni ki Reti	3.5	11
11.	Swarg Ashram Rishikesh	Rishikesh	3	10
12.	Jagjeetpur, Haridwar (27 MLD)	Haridwar	27	17
13.	Jagjeetpur, Haridwar (18 MLD)	Haridwar	18	17
14.	Sarai, Jawalapur STP (14 MLD)	Haridwar	14	14
15.	Old Mothrowala	Dehradun	20	BDL
16.	New Mothrowala	Dehradun	20	11
17.	Kargi	Dehradun	68	10
18.	Salawala	Dehradun	0.71	18
19.	Vijay Colony	Dehradun	0.42	20
20.	3.0 MLD STP Plant, Bajawala, Kaulagarh, Dehradun	Dehradun	3	13

- STPs complying to TSS (20 mg/l - 100 mg/l) in Uttarakhand (April-July, 2024) w.r.t. MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (20 mg/l - 100 mg/l)
1.	Old Suspension bridge	Chamoli-Gopeshwar	0.05	29
2.	Chamoli Ghat	Chamoli-Gopeshwar	0.76	36
3.	Vivekanand Colony STP (Leesa Bend)	Chamoli-Gopeshwar	1.19	95
4.	Pokhri Bend STP	Chamoli-Gopeshwar	1.25	27
5.	Deen Dayal Uppadhyay Park	Chamoli-Gopeshwar	1.12	35
6.	Marwari, Joshimath,	Joshimath	2.7	21
7.	Forest Nala STP	Nandprayag	0.10	35
8.	Sangam Nala STP	Nandprayag	0.05	30
9.	Near Police Chowki STP 01	Karanprayag	0.05	29
10.	Near Ward 1 & 3 STP 05	Karanprayag	0.1	39
11.	BRO Bridge STP 04	Karanprayag	0.05	80
12.	Subhash Nagar STP 03	Karanprayag	0.05	51
13.	Near SBI Bank STP	Rudraprayag	0.1	64
14.	Army Bend (Rudra Complex) STP 02	Rudraprayag	0.1	84
15.	Near Steel Bridge	Rudraprayag	0.125	62
16.	Baleni Road	Rudraprayag	0.05	24
17.	Gyansu	Uttarkashi	2	33
18.	Tehri	Tehri	5	22
19.	0.075 MLD STP Junior High School, Srikot	Srikot-Srinagar	0.075	68
20.	Kirtinagar	Kirti Nagar	0.05	56
21.	Tapovan	Tapovan	3.5	24
22.	Chandreshwar STP	Muni ki Reti	7.5	38
23.	Jagjeetpur Haridwar (68 MLD)	Haridwar	68	22
24.	Sarai, Jawalapur STP	Haridwar	18	21
25.	Jakhan	Dehradun	1	26
26.	Indira Nagar	Dehradun	5	25

- STPs non-complying to TSS (≥ 100 mg/l) in Uttarakhand (April-July, 2024) w.r.t. MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	TSS (≥ 100 mg/l)
1	Gangotri	Gangotri	1	199
2	Badrinath 0.26 MLD STP	Badrinath	0.26	354
3	Old Bridge STP 02	Karanprayag	0.1	113
4	Kirtinagar	Kirti Nagar	0.01	138

- STPs complying to FC (≤ 230 MPN/100 ml) in Uttarakhand (April-July, 2024) w.r.t. NGT and MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity	FC (≤ 230 MPN/100 ml)
1	Gangotri	Gangotri	1	BDL
2	Badrinath 1.0 MLD STP	Badrinath	1	20
3	Deen Dayal Uppadhyay Park	Chamoli-Gopeshwar	1.12	210
4	Marwari, Joshimath,	Joshimath	2.7	2
5	Forest Nala STP	Nandprayag	0.10	45
6	Near SBI Bank STP	Rudraprayag	0.1	1.7
7	Tehri, Bhagirathipuram	Tehri	5	26
8	1.0 MLD STP, Near ITI, Srinagar,	Srinagar	1	<1.8
9	Jakhan	Dehradun	1	20
10	Indira Nagar	Dehradun	5	BDL

- STPs complying to FC (230 - 1000 MPN/100 ml) in Uttarakhand (April-July, 2024) w.r.t. MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	FC (230 - 1000 MPN/100 ml)
1	Sangam Nala STP	Nandprayag	0.05	680

- STPs non-complying to FC (≥ 1000 MPN/100 ml) in Uttarakhand (April-July, 2024) w.r.t. MoEF&CC norms

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	FC (≥ 1000 MPN/100 ml)
1	Badrinath 0.26 MLD STP	Badrinath	0.26	14×10^6
2	Old Suspension bridge	Chamoli-Gopeshwar	0.05	94×10^4
3	Chamoli Ghat	Chamoli-Gopeshwar	0.76	13×10^4
4	Vivekanand Colony STP (Leesa Bend)	Chamoli-Gopeshwar	1.19	11×10^3
5	Pokhri Bend STP	Chamoli-Gopeshwar	1.25	21×10^3
6	Pokhri, Joshimath 1.08 MLD	Joshimath	1.08	22×10^3
7	Near Police Chowki STP 01	Karanprayag	0.05	7×10^3
8	Old Bridge STP 02	Karanprayag	0.1	23×10^5
9	Near Ward 1 & 3 STP 05	Karanprayag	0.1	49×10^3
10	BRO Bridge STP 04	Karanprayag	0.05	92×10^6
11	Subhash Nagar STP 03	Karanprayag	0.05	2×10^3
12	Near Dart Pull STP	Rudraprayag	0.075	2×10^3
13	Army Bend (Rudra Complex) STP 02	Rudraprayag	0.1	14×10^4
14	Near Steel Bridge	Rudraprayag	0.125	68×10^3
15	Baleni Road	Rudraprayag	0.05	49×10^3
16	Gyansu	Uttarkashi	2	14×10^5
17	0.075 MLD STP Junior High School	Srikot-Srinagar	0.075	17×10^9
18	0.05 MLD Taulia STP Srikot	Srikot-Srinagar	0.05	68×10^3
19	Srinagar	Srinagar	3.5	78×10^3
20	Kirtinagar	Kirti Nagar	0.05	21×10^5
21	Kirtinagar	Kirti Nagar	0.01	27×10^8

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	FC (≥ 1000 MPN/100 ml)
22	Sangam Bazar Devprayag	Devprayag	0.15	46×10^4
23	Shanti Bazar Devprayag	Devprayag	0.075	14000
24	Tapovan	Tapovan	3.5	4500
25	Lakkarghat, Rishikesh	Rishikesh	26	11000
26	Muni ki Reti	Muni ki Reti	3.5	12000
27	Chandreshwar STP	Muni ki Reti	7.5	17×10^4
28	Swarg Ashram Rishikesh	Rishikesh	3	94000
29	Jagjeetpur, Haridwar (27 MLD)	Haridwar	27	3300
30	Jagjeetpur Haridwar (68 MLD)	Haridwar	68	28×10^5
31	Jagjeetpur, Haridwar (18 MLD)	Haridwar	18	28×10^5
32	Sarai, Jawalapur STP (14 MLD)	Haridwar	14	17×10^4
33	Sarai, Jawalapur STP	Haridwar	18	3300
34	Old Mothrowala	Dehradun	20	39×10^4
35	New Mothrowala	Dehradun	20	3300
36	Kargi	Dehradun	68	28×10^5
37	Salawala	Dehradun	0.71	4500
38	Vijay Colony	Dehradun	0.42	13000
39	3.0 MLD STP Plant, Bajawala, Kaulagarh, Dehradun	Dehradun	3	17×10^4

- STPs having Disinfection system

S. No.	Name of STPs	Ganga Front Town	Designed Capacity (MLD)	Disinfection Technology
1	Gangotri	Gangotri	1	Chlorination
2	Badrinath 1.0 MLD STP	Badrinath	1	Chlorination
3	Badrinath 0.26 MLD STP	Badrinath	0.26	Chlorination & UV
4	Old Suspension bridge	Chamoli-Gopeshwar	0.05	Ozonation
5	Chamoli Ghat	Chamoli-Gopeshwar	0.76	Ozonation
6	Vivekanand Colony STP (Leesa Bend)	Chamoli-Gopeshwar	1.19	Ozonation
7	Pokhri Bend STP	Chamoli-Gopeshwar	1.25	ozonation & Chlorination
8	Deen Dayal Uppadyay Park	Chamoli-Gopeshwar	1.12	Ozonation
9	Pokhri, Joshimath 1.08 MLD	Joshimath	1.08	Chlorination
10	Marwari, Joshimath,	Joshimath	2.7	Hypochloride
11	Forest Nala STP	Nandprayag	0.10	Ozonation
12	Sangam Nala STP	Nandprayag	0.05	Ozonation
13	Near Police Chowki STP 01	Karanprayag	0.05	Ozonation
14	Old Bridge STP 02	Karanprayag	0.1	Ozonation
15	Near Ward 1 & 3 STP 05	Karanprayag	0.1	Ozonation
16	BRO Bridge STP 04	Karanprayag	0.05	Ozonation
17	Subhash Nagar STP 03	Karanprayag	0.05	Ozonation
18	Near SBI Bank STP	Rudraprayag	0.1	Ozonation
19	Near Dart Pull STP	Rudraprayag	0.075	Ozonation
20	Army Bend (Rudra Complex) STP 02	Rudraprayag	0.1	Ozonation
21	Near Steel Bridge	Rudraprayag	0.125	Ozonation
22	Baleni Road	Rudraprayag	0.05	Ozonation
23	Gyansu	Uttarkashi	2	Chlorination
24	Tehri, Bhagirathipuram	Tehri	5	Chlorination
25	0.075 MLD STP Junior High School, Srikot	Srikot-Srinagar	0.075	Chlorination

26	0.05 MLD Taulia STP Srikot	Srikot-Srinagar	0.05	Chlorination
27	Srinagar	Srinagar	3.5	Chlorination
28	1.0 MLD STP, Near ITI, Srinagar,	Srinagar	1	Chlorination
29	Kirtinagar	Kirti Nagar	0.05	Chlorination
30	Kirtinagar	Kirti Nagar	0.01	Chlorination
31	Bah Bazar Devprayag	Devprayag	1.4	UV
32	Sangam Bazar Devprayag	Devprayag	0.15	Chlorination
33	Shanti Bazar Devprayag	Devprayag	0.075	Chlorination
34	Tapovan	Tapovan	3.5	Chlorination
35	Lakkarghat, Rishikesh	Rishikesh	26	Chlorination
36	Muni ki Reti	Muni ki Reti	3.5	Chlorination
37	Chandreshwar STP	Muni ki Reti	7.5	Chlorination
38	Swarg Ashram Rishikesh	Rishikesh	3	Chlorination
39	Rishikesh, IDPL	Rishikesh	14	Chlorination
40	Jagjeetpur, Haridwar (27 MLD)	Haridwar	27	Chlorination
41	Jagjeetpur Haridwar (68 MLD)	Haridwar	68	Chlorination
42	Jagjeetpur, Haridwar (18 MLD)	Haridwar	18	Chlorination
43	Sarai, Jawalapur STP (14 MLD)	Haridwar	14	Chlorination
44	Sarai, Jawalapur STP	Haridwar	18	Chlorination
45	Old Mothrowala	Dehradun	20	Chlorination
46	New Mothrowala	Dehradun	20	Chlorination
47	Kargi	Dehradun	68	Chlorination
48	Jakhan	Dehradun	1	Chlorination
49	Salawala	Dehradun	0.71	Chlorination
50	Vijay Colony	Dehradun	0.42	Chlorination
51	Indira Nagar	Dehradun	5	Chlorination
52	3.0 MLD STP Plant, Bajawala, Kaulagarh, Dehradun	Dehradun	3	Chlorination

• STPs working below capacity (<75% of designed capacity)

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance Status w.r.t Hon'ble NGT norms dated 30.4.2019	Compliance w.r.t. MoEF&CC norms dtd 13.10.2017
1.	Gangotri	Gangotri	SBR	1	0.2	Non-complying	Non-complying
2.	Badrinath 1.0 MLD STP	Badrinath	SBR	1	0.123	Complying	Complying
3.	Chamoli Ghat	Chamoli-Gopeshwar	Electrocoagulation	0.76	0.042	Non-complying	Non-complying
4.	Vivekanand Colony STP (Leesa)	Chamoli-Gopeshwar	Electrocoagulation	1.19	0.0342	Non-complying	Non-complying
5.	Pokhri Bend STP	Chamoli-Gopeshwar	Electrocoagulation	1.25	0.8	Non-complying	Non-complying
6.	Deen Dayal Upadhvay Park	Chamoli-Gopeshwar	Electrocoagulation	1.12	0.5	Non-complying	Complying
7.	Pokhri, Joshimath 1.08 MLD	Joshimath	SBR	1.08	0.044	Non-complying	Non-complying
8.	Marwari,	Joshimath	SBR	2.7	1.24	Non-complying	Complying
9.	Forest Nala STP	Nandprayag	Electrocoagulation	0.10	0.02196	Non-complying	Complying

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance Status w.r.t Hon'ble NGT norms dated 30.4.2019	Compliance w.r.t. MoEF&CC norms dtd 13.10.2017
10.	Sangam Nala STP	Nandprayag	Electrocoagulation	0.05	0.0225	Non-complying	Complying
11.	Old Bridge STP 02	Karanprayag	Electrocoagulation	0.1	0.04733	Non-complying	Non-complying
12.	Near Ward 1 & 3 STP 05	Karanprayag	Electrocoagulation	0.1	0.03539	Non-complying	Non-complying
13.	Subhash Nagar STP 03	Karanprayag	Electrocoagulation	0.05	0.0363	Non-complying	Non-complying
14.	Near SBI Bank STP	Rudraprayag	Electrocoagulation	0.1	0.022	Non-complying	Non-complying
15.	Near Dart Pull STP	Rudraprayag	Electrocoagulation	0.075	0.044	Non-complying	Non-complying
16.	Army Bend (Rudra Complex) STP 02	Rudraprayag	Electrocoagulation	0.1	0.03	Non-complying	Non-complying
17.	Baleni Road	Rudraprayag	Electrocoagulation	0.05	0.0196	Non-complying	Non-complying
18.	Tehri, Bhanirathinuram	Tehri	ASP	5	3.11	Non-complying	Complying
19.	0.05 MLD Taulia STP Srikot	Srikot-Srinagar	Fluidized Aerobic Bed (FAB) with PVA Gel media	0.05	0.026	Non-complying	Non-complying
20.	Srinagar	Srinagar	FAB	3.5	2.5	Non-complying	Non-complying
21.	1.0 MLD STP, Near ITI Srinagar	Srinagar	SBR	1	0.4	Complying	Complying
22.	Kirtinagar	Kirti Nagar	Fluidized Aerobic Bed (FAB) with PVA Gel media	0.05	0.03	Non-complying	Non-complying
23.	Sangam Bazar Devprayag	Devprayag	SBR	0.15	0.058	Non-complying	Non-complying
24.	Shanti Bazar Devprayag	Devprayag	SBR	0.075	0.0139	Non-complying	Non-complying
25.	Tapovan	Tapovan	SBR	3.5	1.91	Non-complying	Non-complying
26.	Lakkarghat, Rishikesh	Rishikesh	SBR	26	16.38	Non-complying	Non-complying
27.	Muni ki Reti	Muni ki Reti	MBBR	3.5	2.44	Non-complying	Non-complying
28.	Jakhan	Dehradun	SBR	1	0.12	Non-complying	Complying
29.	Salawala	Dehradun	SBR	0.71	0.36	Non-complying	Non-complying
30.	Vijay Colony	Dehradun	SBR	0.42	0.31	Non-complying	Non-complying
31.	Indira Nagar	Dehradun	SBR	5	3.48	Non-complying	Complying
32.	3.0 MLD STP Bajawala, Kaulagarh.	Dehradun	SBR	3	0.542	Non-complying	Non-complying

- STPs working over capacity

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance Status w.r.t Hon'ble NGT norms dated 30.4.2019	Compliance w.r.t. MoEF &CC norms dtd 13.10.2017
1	BRO Bridge STP 04	Karanprayag	Electro-Coagulation	0.05	0.05232	Non-complying	Non-complying
2	Gyansu	Uttarkashi	MBBR	2	2.5	Non-complying	Non-complying
3	0.075 MLD STP Junior High School, Srikot	Srikot-Srinagar	Fluidized Aerobic Bed (FAB) with PVA Gel media	0.075	0.1	Non-complying	Non-complying
4	Jagjeetpur, Haridwar (18 MLD)	Haridwar	ASP	18	21	Non-complying	Non-complying
5	Jagjeetpur Haridwar (68 MLD)	Haridwar	SBR	68	77.36	Non-complying	Non-complying
6	Sarai, Jawalapur STP (14 MLD)	Haridwar	SBR	14	16.41	Non-complying	Non-complying

STP receiving weak sewage (Inlet BOD<40mg/L)

S. No.	Name of STPs	Ganga Front Town	Treatment Technology	Designed Capacity (MLD)	Utilized capacity (MLD)	Compliance Status w.r.t Hon'ble NGT norms dated 30.4.2019	Compliance w.r.t. MoEF norms dtd 13.10.2017
1	Marwari, Joshimath.	Joshimath	SBR	2.7	1.24	Non-complying	Complying
2	Sangam Nala STP	Nandprayag	(Electro-Coagulation followed by	0.05	0.0225	Non-complying	Complying
3	Near Police Chowki STP 01	Karanprayag	Electro-Coagulation followed by Ozonation)	0.05	0.04204	Non-complying	Non-complying
4	Near Ward 1 & 3 STP 05	Karanprayag	Electro-coagulation (Physioc-Chemical)	0.1	0.03539	Non-complying	Non-complying
5	BRO Bridge STP 04	Karanprayag	Electro-Coagulation followed by Ozonation	0.05	0.05232	Non-complying	Non-complying
6	Subhash Nagar STP 03	Karanprayag	Electro-Coagulation followed by Ozonation	0.05	0.0363	Non-complying	Non-complying
7	Near Dart Pull STP	Rudraprayag	Electro-coagulation (Physioc-Chemical)	0.075	0.044	Non-complying	Non-complying
8	Army Bend (Rudra Complex) STP 02	Rudraprayag	Electro-coagulation (Physioc-Chemical)	0.1	0.03	Non-complying	Non-complying
9	Near Steel Bridge	Rudraprayag	Electrocogulation Tech.	0.125	0.1156	Non-complying	Non-complying
10	Baleni Road	Rudraprayag	Electrocoagulation	0.05	0.0196	Non-complying	Non-complying
11	1.0 MLD STP, Near ITI, Srinagar,	Srinagar	SBR	1	0.4	Complying	Complying

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NGT Standards: Compliance based on norms prescribed by Hon'ble NGT vide order dt 30.04.2019 in the matter of OA no. 1069/2018 (pH – 5.5-9.0, BOD <10mg/l, TSS< 20mg/l, COD< 50mg/l; Faecal Coliform – desirable <100MPN/100ml & permissible < 230 MPN/100 ml, Nitrogen-Total < 10 mg/l and Phosphorous-Total < 1.0 mg/l (TP compliance for discharge into ponds and lakes).

Compliance compared with MoEF&CC notification dt. 13.10.2017: Standard for treated sewage from STPs for cities other than metro cities, state capitals and union territories were notified as pH-6.5-9.0, BOD as 30mg/L, Total suspended solids (TSS) as less than 100mg/L and Faecal coliform as less than 1000MPN per 100mL.