



HEAD OFFICE
Uttarakhand Pollution Control Board

"Gaura Devi Paryavaran Bhawan"
46-B, IT Park, Sahastradhara Road, Dehradun (Uttarakhand)
Web: www.ueppcb.uk.gov.in. E-mail: msukpcb@yahoo.com

Ref: UKPCB/HO/Gen-476(Vol. III)/2022/1089. Dehradun, September 30 2022

E-MAIL / SPEED POST

To,

✓ Executive Director (Tech.),
National Mission for Clean Ganga (NMCG)
Department of Water Resource, River Development
& Ganga Rejuvenation, Ministry of Jal Shakti,
1st Floor, Major Dhyan Chand National Stadium
India Gate, New Delhi-110002.

Sub.: Monthly Progress Report of August, 2022 in the matter of O.A. No. 673/2018, Rejuvenation of Polluted River Stretches as per the Hon'ble National Green Tribunal orders dated 20.09.2018, 19.12.2018, & 08.04.2019 - reg.

Sir,

With reference to the above subject matter, please find enclosed herewith a copy of Monthly Progress Report for the month of August, 2022 along with Annexure 1 to 3 for your kind perusal and further necessary action. The soft copy of Monthly Progress Report has already sent through E-mail at ruby.raju@nmcg.nic.in, drpravin@nmcg.nic.in, emcukcsoffice@gmail.com & asudhakar.cpcb@nic.in.

Enclosed: As above.

Yours' faithfully,


S.P. Subudhi I.F.S.
Member Secretary

Copy to:

1. Principal Secretary, Forest, Environment and Climate Change, Govt. of Uttarakhand/ Chairman, River Rejuvenation Committee, Uttarakhand for kind information please.
2. Staff Officer to the Chief Secretary, Uttarakhand / Member Convener, Environment Monitoring Cell, Office of the Chief Secretary, Secretariat, Dehradun for kind information and necessary action please.
3. Shri A. Sudhakar, Divisional Head - WQM-I, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Shahdara, Delhi-110032 for kind information please.
4. Program Director, State Project Management Group (SPMG), Namami Gange, 117, Indira Nagar, Vasant Vihar, Dehradun- 248006 (Uttarakhand) for kind information.


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Member Secretary

**Monthly Progress Report in compliance of order dated 24.09.2020 of the
Hon'ble NGT in the matter of O.A. No. 673 of 2018 of the State of Uttarakhand.**

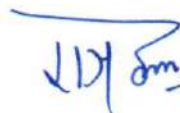
AUGUST, 2022

1. OVERALL STATUS OF THE STATE:

I.	Total Population (2011)	1,00,86,292
		Urban-30,49,338
		Rural-70,36,954
II.	Estimated Sewage Generation (MLD) (2011)	Urban- 329.32 MLD, Rural-225.18 MLD (Taking Rate of Water Supply for Urban @ 135 LPCD & Rural @ 40 LPCD)

2. DETAILS OF SEWAGE TREATMENT PLANTS:

Existing no. of STPs and Treatment Capacity (in MLD)	67 STPs of 397.21 MLD treatment capacity		
	District	Installed capacity (MLD)	Capacity Utilization (MLD)
	Chamoli	7.22	2.106
	Rudraprayag	0.525	0.47
	Pauri	7.625	4.198
	Tehri	22.685	14.57
	Uttarkashi	3.00	1.983
	Haridwar	178.00	141.04
	Dehradun	148.45	57.095
	Nainital	21.45	10.91
	Almora	2.00	1.65
	Pithoragarh	6.25	1.80
	Total	397.205	235.822
Capacity Utilization of existing STPs	235.822 MLD		
MLD of sewage being treated through alternate technology	165 MLD Through Septic tank and Soak pit.		
No. of Operational STPs	65 (Monitoring of 1.0 MLD STP at Gangotri could not be done).		
No. of Non-Operational STPs	02 Nos. (i) 0.075 MLD STP at Rudraprayag (Near Anoop Negi School). (ii) 10 MLD capacity Rusi Pond at Nainital. (Pond found dry)		
No. of Complying STP's	■ As per standards notified by MoEF& CC: 60		



(Out of 64 STPs monitored in the month of August, 2022)	As per standards prescribed by the Hon'ble NGT order dated 30.04.2019: 44.						
No. of Non-complying STP's (Out of 64 STPs monitored in the month of August, 2022)	- As per standards notified by MoEF&CC: 04 - As per standards prescribed by the Hon'ble NGT order dated 30.04.2019: 20						
Standards:							
Parameters	pH	BOD (mg/L)	TSS (mg/L)	Faecal Coliform (MPN/100 mL)	COD (mg/L)	Total- Nitrogen (mg/L)	Total Phosphorus (mg/L)
Standards notified by the MoEF&CC	6.5-9.0	30	<100	<1000	--	--	--
Standards prescribed by the Hon'ble NGT	5.5-9.0	10	20	230	50	10	1.0

Details of existing STPs in the State during the month of August, 2022:

No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STPs	
					As per MoEF & CC notified Standards	As per Standards prescribed by Hon'ble NGT
1.	Badrinath (Bamni Gaon) Distt.- Chamoli	0.26	0.050	Operational	Complying	Non-Complying
2.	Badrinath (Near Temple) Distt.- Chamoli	0.01	0.005	Operational	Complying	Non-Complying
3.	Badrinath (Near suspension Bridge) Distt. Chamoli	1.00	0.200	Operational	Complying	Non-Complying
4.	Joshimath (Pokhri) Distt.-Chamoli	1.08	0.421	Operational	Complying	Complying
5.	Gopeshwar (Chamoli Ghat) Distt.-Chamoli	0.76	0.05	Operational	Complying	Complying
6.	Gopeshwar (Near Suspension bridge) Distt. Chamoli	0.05	0.010	Operational	Complying	Complying

No	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STPs	
					As per MoEF & CC notified Standards	As per Standards prescribed by Hon'ble NGT
7.	Gopeshwar (Vivekanand Colony) Distt.-Chamoli	1.19	0.50	Operational	Complying	Complying
8.	Gopeshwar (Deen Dayal Upadhyay Park), Baiterni, Distt.-Chamoli	1.12	0.075	Operational	Complying	Complying
9.	Gopeshwar (Pokhari Band) Distt.-Chamoli	1.25	0.50	Operational	Complying	Complying
10.	Nandprayag (Sangam Road) Distt.-Chamoli	0.05	0.015	Operational	Complying	Complying
11.	Nandprayag (Forest office) Distt.-Chamoli	0.10	0.09	Operational	Complying	Complying
				However, due to under capacity, untreated effluent is partially discharged into River Nandakini.		
12.	Karanprayag (Police chowki) Distt.-Chamoli	0.05	0.05	Operational	Complying	Complying
13.	Karanprayag (Purana pull) Distt.-Chamoli	0.10	0.08	Operational	Complying	Complying
14.	Karanprayag (Ward no. 1&3) Distt.-Chamoli	0.10	0.035	Operational	Complying	Complying
15.	Karanprayag (Subhash Nagar) Distt.-Chamoli	0.05	0.02	Operational	Complying	Complying
16.	Karanprayag (Naya Pull) Distt.-Chamoli	0.05	0.005	Operational	Complying	Complying
17.	Rudraprayag (Near Anoop Negi School), Distt. - Rudraprayag	0.075	0.075	Non-Operational Due to heavy landslides on dt 10.09.2021 nala tapping works and STP foundation damaged, so as a precautionary measures, all equipment's dismantled from STP. DPR for restoration work has been submitted to NMCG. Approval is awaited.		
18.	Rudraprayag (Near Rudra	0.10	0.08	Operational	Complying	Complying

[Signature]

No	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STPs	
					As per MoEF & CC notified Standards	As per Standards prescribed by Hon'ble NGT
	Complex), Distt-Rudraprayag					
19.	Rudraprayag (Near Bus Stand) Distt.-Rudraprayag	0.075	0.075	Operational	Complying	Complying
20.	Rudraprayag (Near SBI & Masjid), Distt-Rudraprayag	0.10	0.090	Operational	Complying	Complying
21.	Rudraprayag (Near Steel Bridge), Distt-Rudraprayag	0.125	0.125	Operational	Complying	Complying
22.	Rudraprayag (Belani) Distt-Rudraprayag	0.05	0.025	Operational	Complying	Complying
23.	Kirtinagar (BRO Bridge), Distt.-Tehri	0.05	0.03	Operational	Complying	Complying
24.	Kirtinagar (Near Temple), Distt-Tehri	0.01	0.01	Operational	Complying	Complying
25.	Bhagirathipuram, Distt. -Tehri	5.00	2.50	Operational	Complying	Complying
26.	Chorpani, Dhalwala, Distt.-Tehri	5.00	4.20	Operational	Complying	Complying
27.	Chandreshwar Ghat, Dhalwala, Distt.-Tehri	7.50	6.50	Operational	Complying	Non-Complying
28.	Tapovan, Rishikesh Distt.-Tehri	3.50	1.10	Operational	Complying	Complying
29.	Shanti bazar, Devprayag, Distt.-Tehri	0.075	0.04	Operational	Complying	Complying
30.	Sangambazar, Devprayag Distt.-Tehri	0.15	0.15	Operational	Complying	Complying
31.	Baah Bazar, Devprayag Distt.-Tehri	1.40	0.04	Operational	Complying	Complying

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No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STPs	
					As per MoEF & CC notified Standards	As per Standards prescribed by Hon'ble NGT
32.	Gyansu, Uttarkashi Distt.-Uttarkashi	2.00	1.783	Operational	Complying	Complying
33.	Gangotri, Uttarkashi Distt.-Uttarkashi	1.00	0.20	Operational	Monitoring could not done	
34.	Nursery Road, Srinagar Distt.-Pauri	3.50	1.50	Operational	Complying	Complying
35.	Srinagar (Near ITI) Distt.-Pauri	1.00	0.50	Operational	Complying	Complying
36.	Taulia, Srikot Distt.- Pauri Garhwal	0.05	0.008	Operational	Complying	Complying
37.	Near Junior High School, Srikot, Srinagar Distt.- Pauri	0.075	0.070	Operational	Complying	Complying
38.	Swargashram, Rishikesh, Distt.-Pauri	3.00	2.12	Operational	Complying	Complying
39.	Lakkarghat, Rishikesh Distt.-Dehradun	26.00	12.30	Operational	Complying	Complying
40.	Jagjeetpur, Haridwar Distt.-Haridwar	27.00	27.00	Operational	Complying	Non-Complying
41.	Jagjeetpur, Haridwar Distt.-Haridwar	18.00	18.00	Operational	Complying	Complying
42.	Jagjeetpur, Haridwar Distt.-Haridwar	68.00	45.02	Operational	Complying	Complying
43.	Sarai (I), Haridwar Distt.-Haridwar	18.00	18.00	Operational	Complying	Complying
44.	Sarai (II), Haridwar Distt.-Haridwar	14.00	13.02	Operational	Complying	Complying
45.	Saliyar, Roorkee Distt.-Haridwar	33.00	20.00	Operational	Complying	Non-Complying
46.	Motharawala-I, Dehradun	20.00	13.52	Operational	Complying	Complying

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No	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STPs	
					As per MoEF & CC notified Standards	As per Standards prescribed by Hon'ble NGT
	Distt.-Dehradun					
47.	Motharawala-II, Dehradun Distt.-Dehradun	20.00	11.00	Operational	Non- Complying	Non- Complying
48.	Kargi, Dehradun Distt.-Dehradun	68.00	13.00	Operational	Non- Complying	Non- Complying
49.	Vijay Colony, Dehradun Distt.-Dehradun	0.42	0.30	Operational	Complying	Non- Complying
50.	Salawala, Dehradun Distt.-Dehradun	0.72	0.35	Operational	Non- Complying	Non- Complying
51.	Indira Nagar, Dehradun Distt.-Dehradun	5.00	5.00	Operational	Complying	Non- Complying
52.	Jakhan, Dehradun Distt.-Dehradun	1.00	0.14	Operational	Non- Complying	Non- Complying
53.	Bhattafall, Mussoorie Distt.-Dehradun	3.12	0.80	Operational	Complying	Complying
54.	Happy Valley, Mussoorie Distt.-Dehradun	1.20	0.20	Operational	Complying	Non- Complying
55.	Landour, South, Mussoorie Distt.-Dehradun	1.30	0.10	Operational	Complying	Complying
56.	Landour, North, Mussoorie Distt.-Dehradun	0.80	0.035	Operational	Complying	Complying
57.	Kulri Bazaar, Mussoorie Distt.-Dehradun	0.90	0.35	Operational	Complying	Complying
58.	Hari Nagar, Nainital Distt.-Nainital	0.45	0.25	Operational	Complying	Non- Complying
59.	Krishnapur, Nainital Distt.-Nainital	0.80	0.45	Operational	Complying	Non- Complying
60.	Bheemtal, Nainital Distt.-Nainital	1.25	0.810	Operational	Complying	Non- Complying
61.	Bakh, Almora Distt.-Almora	2.00	1.65	Operational	Complying	Non- Complying

21/8/20

No.	Location	Existing STP Capacity (MLD)	Capacity Being Utilized (MLD)	Operational Status of STP	Compliance Status of STPs	
					As per MoEF & CC notified Standards	As per Standards prescribed by Hon'ble NGT
62.	Roosi, Nainital, Distt.- Nainital	10.00	6.75	Non-Operational	Pond found dry. (Non-Operational)	
63.	Ancholi, Pithoragarh Distt.-Pithoragarh	5.00	1.00	Operational	Complying	Non-Complying
64.	Nirada, Pithoragarh Distt.- Pithoragarh	1.25	0.80	Operational	Complying	Complying
65.	Transport Nagar Ramnagar Distt.- Nainital	7.00	2.5	Operational	Complying	Non-Complying
66.	Ramnagar, Puchdi, Distt.- Nainital	1.50	0.15	Operational	Complying	Non-Complying
67.	Narayan Nagar, Nainital Distt. Nainital	0.450	-	Operational	Complying	Non-Complying
	Total	397.21	235.82			

Details of under construction STPs in the State:

No.	Location	Capacity of the plant in MLD	Physical progress in %	Status of I & D or House sewer connections	Completion Timeline
1.	Kaulagarh Distt. - Dehradun	3.00	70%	Sewer lines already laid in 13 th Finance Programme.	December, 2022
2.	Marwari, Joshimath Distt. -Chamoli	2.70	85%	-	September, 2022
3.	Haldwani (Indira Nagar) Distt. -Nainital	28.00	95%	Sewer line is already laid/is being laid in AMRUT Programme	September, 2022
4.	Kashipur Distt. -US Nagar	18.00	90%	-	December, 2022
5.	Kashipur Distt. U.S. Nagar (Proposed under River Rejuvenation of Dhella)	10.00	5%	I&D – 50%	DOC- 06.01.2024

No.	Location	Capacity of the plant in MLD	Physical progress in %	Status of I & D or House sewer connections	Completion Timeline
6.	Mukhandpur, Kashipur, Distt. U.S. Nagar (Proposed under River Rejuvenation of Kosi)	0.50	G.O. for purchase of land issued. Land Procurement is under progress.		DOC-06.01.2024
7.	Gularia, Kashipur Distt. U.S. Nagar (Proposed under River Rejuvenation of Dhella)	0.30	G.O. for purchase of land issued. Land Procurement is under progress.		DOC-06.01.2024
8.	Jaspur Khurd, Kashipur Distt. U.S. Nagar (Proposed under River Rejuvenation of Bhella)	1.00	5%	I&D – 50%	DOC-06.01.2024
9.	Hempur Smile, Kashipur Distt. U.S. Nagar (Proposed under River Rejuvenation of Bhella)	2.00	Proposal of Transfer of Govt. land is under process.		DOC-06.01.2024
10.	Beljudi Kashipur Distt. U.S. Nagar (Proposed under River Rejuvenation of Dhella)	0.50	Land Purchased. Work will be started soon.		DOC-06.01.2024
11.	Bazpur Distt. U.S. Nagar (Proposed under River Rejuvenation of Pilakhar)	10.00	G.O. for purchase of land issued. Land will be purchased soon after allotment of fund.		DOC-06.01.2024
12.	Kichha, Rudrapur Distt. U.S. Nagar (Proposed under River Rejuvenation of Kichha)	3.00	Land Procurement is under progress.		DOC-06.01.2024
13.	Sitarganj Distt. U.S. Nagar (Proposed under River Rejuvenation of Nandhour)	3.00	Proposal of Transfer of Govt. land is under process.		DOC-06.01.2024
14.	Roosi Pond, Nainital Distt. Nainital	17.50	Work awarded and review of detail design is in progress.		
15.	Nakronda, Dehradun, Distt. Dehradun	17.50	Work awarded and review of detail design is in progress.		
16.	Daurwala, Dehradun, Distt. Dehradun	18.00	Work awarded and review of detail design is in progress.		
Total		135.00			

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Details of proposed STPs in the State:

No.	Location	Capacity of the STP proposed in MLD	Status of Project (at DPR Stage/Under Trending/Work to be Awarded)	Likely Date of Completion
1	Rudrapur Distt. U.S. Nagar (Proposed under River Rejuvenation of Kalyani)	-	DPR is being prepared under Namami Gange programme	
2	Mussoorie Distt. Dehradun	0.70	Tender Invited. Technical bidding opened.	
3	Mussoorie Distt. Dehradun	1.10		
4	Mussoorie Distt. Dehradun	0.70		
5	Mussoorie Distt. Dehradun	0.70		
6	Mussoorie Distt. Dehradun	0.05		
7	Pandeykhaula Distt. Almora	1.50	DPR approved and tender finalised.	
8	Gyansu Distt. Uttarkashi	4	DPR prepared and sent to State sector for fund allocation.	
9	Khadri, Rishikesh Distt. Dehradun	5	Proposed under KfW	
10	Muni ki Reti, Rishikesh Distt. Tehri	5	Approved during September, 2022 by NMCG. Tender is being invited.	
11	Swargashram, Rishikesh Distt. Pauri	3		
12	Neelkanth, Rishikesh Distt. Pauri	1.50		
	Total	23.25		

- State of Uttarakhand has made timely progress in Namami Gange Projects. All necessary infrastructure provisions have been ensuring by the State towards pollution abatement on the main stem of River Ganga (Segment-A).
- Out of 32 STPs with treatment capacity of 131.87 MLD, 31 STPs with treatment capacity of 129.17 MLD have been installed and functional under Namami Gange programme.
- Out of 131 drains, which were draining into River Ganga, 128 drains have been tapped and all the drains have been intercepted and diverted to STPs (44 Nos.).
- In order to ensure the integrated and sustained cleanliness of tributary of River Ganga in Uttarakhand state, the National Mission for Clean Ganga (NMCG) has sanctioned Rs. 199.36 crore for interception and diversion of 17 Nos. drains and establishment of 09 STPs along the 06 Polluted River Stretches. Work started on dated 07.01.2022. Design & drawing work is completed and work is in progress."

- Meanwhile, as per directions of the Hon'ble National Green Tribunal in the matter of O.A. 673/2018 dated 06.12.2019 bio-remediation of 19 drains of 09 polluted river stretches have been done for a period of 04 months (Feb-2021 to June-2021) covering Kumbh Mela period under Namami Gange Program.

3. DETAILS OF INDUSTRIAL POLLUTION:

No. of industries in the State	8802
No. of water polluting industries in the State	854
Quantity of effluent generated from the industries in MLD	145 MLD
Quantity of Hazardous Waste generated from the industries	22586.24 Tonnes (Year 2021-22)
Number of industrial units having ETPs	854
Number of industrial units connected to CETP	1079 (350 wet, 729 dry units)
Number and total capacity of ETPs (details of existing/ under construction/proposed)	175 MLD
Compliance status of the ETPs	All are complying
Number and total capacity of CETPs (details of existing/under construction/proposed)	Existing: 03 CETPs of 13.2 MLD. Under construction: Nil Proposed CETP: Sitarganj- (i) Proposed- 8 MLD (Package i,ii & iii in Module 2 MLD + 3 MLD+3 MLD) Preparation of tender documents for establishing proposed CETP is under process with technical cooperation from GIZ.
Status of compliance and operation of the CETPs	All 03 CETPs are operational and complying with prescribed discharge norms.

Status of Operational CETPs:

Industrial Estate	No. of industries	Industrial discharge	Status of ETPs	Status of CETPs (existing, under construction & proposed)
IIE, Ranipur, Haridwar	531	4.5 MLD	All 530 units are connected to CETP. (01 industry M/s Hero Motocorp has its own ETP)	Capacity - 5.2 MLD) and complying with prescribed discharge norms.

IIE, Pantnagar (US Nagar)	499	2.0 MLD	- For 474 no. units Conveyance system is available for 474 nos. of industrial Units. (M/S Roquette Riddhi Siddhi Pvt Ltd., IIE Pantnagar has its own ETP). - Rest 24 units are proposed to be connected by 31.12.2022. However, all these units are having their own treatment system, as per requirement.	CETP of 4 MLD capacity is operational and complying with norms. UK Jal Nigam is implementing agency for the construction of conveyance system. Work delayed Covid-19 pandemic and now expected to be completed by December, 2022.
ESIP Sitarganj (US Nagar)	75	2.0 MLD	All 75 units are connected to CETP.	CETP with 4.0 MLD Capacity is operational and complying to the norms.

4. SOLID WASTE MANAGEMENT:

Total number of Urban Local Bodies and their Population	102 Urban Local Bodies, Population- 36,26,586 (11 ULBs are newly added)
Current Municipal Solid Waste Generation	1450.4MTPD
Current Municipal Solid Waste Processed	943.2 MTPD ULB wise details in enclosed as Annexure-1 .
Number, installed capacity and utilization of existing MSW processing facilities in TDP (bifurcated by type of processing e.g.- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio methanation, MRF etc. Existing Facilities	- Two waste processing & Sanitary Land Fill facilities (SLF) (Dehradun: 200 Ton/day & Haridwar: 150 Ton/day capacity) are functional in the State. - Two waste processing & SLF facility i.e. one at Rishikesh (covering 5 ULBs) and one in Haldwani (covering 7 ULBs), project approved, in Haldwani RFP has been revised and in Rishikesh agreement has been done with successful bidder. - Total 37 Material Recovery Facility is functional in 35 ULBs having total capacity of 219.65 MTPD.
Pl. also specify total quantum of waste processing in the State.	

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Location of MRFs and their capacities. Location of Plastic compactor, their capacity and year wise quantity of plastic waste compacted and sent for recycling. Revenue generated	▪ In NPP Muni-ki-Reti, a 5MTPD capacity Plastic to Plank system has been installed. ▪ Plastic Compactors- 57 Nos. (Operational). ▪ Total Capacity of Compactor is 255 Tonnes per day. ▪ Revenue generated from the plastic compactors is Rs. 366.62 Lacs by selling compacted plastics/bails.						
Action plan to bridge gap between Installed Capacity and Current Utilization of processing facilities (if Gap>20%)	Two CSWTFs are operational at Haridwar and Dehradun with 100% utilization. Dehradun: Plant Installed Capacity- 200 TPD (8hr running capacity) Daily Solid Waste Collected (Average) –387 TPD Daily Waste Processed (Average)- 387 TPD (100%) Haridwar: Plant Installed Capacity- 150 TPD (8hr running capacity) Daily Solid Waste Collected – 169.5 TPD Daily Waste Processed- 169.5TPD (100%)						
Nos. and capacity of C&D waste processing plants in TDP (existing, proposed and under construction)	▪ 68 ULBs have reported either no generation of C&D waste or the same is used in backfilling. ▪ 16 ULBs have reported waste generation, out of which 08 have identified site for this purpose amongst these 16 ULBs, C&D Plant is proposed in Dehradun, Rishikesh and Kashipur under NCAP (National Clean Air Program) for which Site has been identified. DPR in process of preparation with the help of UUSDA (Uttarakhand Urban Sector Development Agency). ▪ Baseline study has been started to collect data for constructing C & D waste Management Plant in 03 NCAP cities. ▪ Remaining 07 ULBs didn't report any data on waste generation, and are in process of assessing C&D of waste generation data & details regarding 09 Newly formed ULBs is in process.						
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source.	Total number of Wards-1152 Door to door Collecton-1152 Source Segregation-1047						
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	<table><tr><th>Current Status</th><th>Total DPRs</th><th>No. of ULBs</th></tr><tr><td>DPR Approved & Plant Functional</td><td>02</td><td>05</td></tr></table>	Current Status	Total DPRs	No. of ULBs	DPR Approved & Plant Functional	02	05
Current Status	Total DPRs	No. of ULBs					
DPR Approved & Plant Functional	02	05					

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	DPRs approved & funds are disbursed	57	72
	DPRs approved & funds disbursed by GoUK, in process to transfer funds to ULB.	03	11
	DPRs at different stages of approval	03	03
	Total	65	91
Collection & Transportation Vehicles have been purchased by ULBs in initial phase to implement 100% Door to Door Collection & 100 % Source Segregation. ULBs are in process of obtaining Environmental Clearance & Consent to Establish, as construction is proposed after obtaining EC/CTE from Competent Authority. Status is as below: - Authorization/Environmental Clearance status: ▪ EC Obtained: Dehradun, Haldwani – Rudarpur ISWM Cluster (In Tender process), Rishikesh, Srinagar & Haridwar. ▪ Applied For EC: Almora, Kotdwar, Ramanagar, Tehri-Chamba, Chamoli, Joshimath & Pauri. ▪ Final EIA report submitted: Pauri. ▪ Tender process initiated for EC: Gauchar, Roorkee ▪ Applied for Authorization: Doiwala, Sitarganj, Purola, Duggada, Chinyalisaur, Dineshpur, Naugaon, Pipalkoti, Gauchar, Uttarakashi, Badrinath, Roorkee, Rishikesh Chamiyala, Gularbhoj, Augustmuni, Lambgaon, Pirankaliyar, Ghansali, Mahuakhedaganj, Devprayag, Kirtinagar Gairsain, Barkot.			
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	▪ 02 Scientific Sanitary Landfills (Haridwar & Dehradun) are in operation. ▪ Currently 61 ULBs have reported that legacy waste has been remediated/removed/ processed. For remaining 30 ULBs current status is given bellow: ▪ Total legacy waste estimated at 28 locations are approximately 19.00 lacs MT, remaining 2 ULBs are in process of measurement. ▪ For 7 ULBs, quantity 15.56 lakh MT costing Rs.80.88 Cr. (Bio-remediation Cost @ Rs.550 /MT as per SBM 2.0 Guidelines).		

	▪ Proposal approved by SHPC on 19.02.2021 & sent to GoI. ▪ Remediation work Completed at 2 Sites- (Kotdwar & Gairsain) ▪ Remediation work initiated at 2 sites- (Kashipur & Rishikesh) sources from 2 ULBs out of above mentioned 8 dumpsites). ▪ 07 DPRs covering 08 Dumpsites have been sent to MoHUA, GoI after SHPC approval. ▪ Funds disbursement of total Rs. 28.83 Cr (as first instalment) done for 8 sites of 7 ULBs, i.e. Dehradun, Haridwar, Rishikesh, Roorkee, Kotdwar, Kashipur, Haldwani. ▪ For Nagar Nigam, Rishikesh out of total allocation of Rs. 6.45 Cr., Rs. 2.33 Cr. Has been disbursed and allotted to Nagar Nigam, Rishikesh vide GO No. 570 dt.07.09.2022. ▪ Bio-Remediation Machine procured: Gauchar and Karnprayag machine procured by both the ULBs, In Gauchar remediation work has been started and to be completed within one month. After completion of bio remediation work at Gauchar, same machine is to be used by Karnprayag. ▪ In 7 ULBs waste is being remediated from own sources of ULBs (Rudrapur, Muni-ki-Reti, Uttarkashi, Barkot, Mussoorie Pithoragarh & Joshimath). ▪ DPR of 5 ULBs i.e. Srinagar, Manglaur, Doiwala, Ramnagar, Pirankaliyar and Khatima has been prepared & at different stages of evaluation. ▪ Remaining 08 ULBs have measured the waste & are in process of DPR preparation. (Almora, Chamba, Sitarganj Gangolihat, Jhabreda, Berinag & Landhaura). ▪ 01 ULB is yet to measure waste quantity namely; Purola. Progress: Approximately 1.86 Lakh Tonns of waste has been remediated cumulatively from following sites viz. Rishikesh, Kotdwar, Uttarkashi, Rudrapur & Muni-ki-Reti.
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	07 (Uttarkashi, Haldwani, Kotdwar, Doiwala, Srinagar, Rishikesh & Purola), as informed by respective ULBs.
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	There is total 131 small and big drains identified in Ganga Towns, tapping/ jaal on drains done in all the drains. Tapping works are done by Uttarakhand Jal Nigam and regular cleaning is being done by concern ULBs.

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Status of ULB wise Management of Solid Waste:

Treatment and Disposal facility for SWM- Land Identification and Procurement status is as follows (for Total 91 ULBs):

- Procurement of land completed for 71 ULBs (9 Clusters serving 34 ULBs and 37 ULBs procured individually)
- Land identified on rent basis: 3 ULBs land on rent (Nathuvawala Model: Ward No. 100 Dehradun).
- 01 Cluster covering 2 ULBs have identified forest land and in process of approval.
- 12 ULBs individually identified forest land and in process of approval.
- 03 ULBs have identified revenue land are in process of approval,
(71+3+2+12+3=91).

5. BIO-MEDICAL WASTE MANAGEMENT:

Total Bio-medical generation	6891.37 Kg/day. (Year 2021)
No. of Hospitals and Health Care Facilities	5355 Nos.
Status of Treatment Facilities/CBMWTF	Two CBMTF facilities are operational in the State with existing capacity of 300 Kg/Hr (100 Kg/Hr permitted additionally due to Covid). Two more CBMWTFs are proposed in Narendra Nagar (Distt. Tehri) and Sitarganj (US Nagar) for which Environmental Clearance have been accorded.

6. HAZARDOUS WASTE MANAGEMENT:

Total Hazardous Waste generation	22586.24 Tonnes (Year 2021-22)
No. of Industries generation Hazardous waste	4494 Nos.
Treatment Capacity of all TSDFs	Incineration-12000 Tonnes Land filling-8000 Tonnes
Quantity of Hazardous waste reached the TSDFs and Treated (Year 2021-22)	21707.145 Tonnes (Year 2021-22) Landfillable: 2742.279 Tonnes Incinerable: 5533.643 Tonnes Recyclable: 11728.77 Tonnes Co-processed: 1103.263 Tonnes (In Cement Kilns) Utilization: 599.19 Tonnes

	(Year 2021-22)
Details of on-going or proposed TSDF	Capacity utilization of existing facility is proposed.

The existing capacity of the common Hazardous Waste Treatment and Disposal Facilities (CHWTF) is more than total waste generation in the State.

7. PLASTIC WASTE MANAGEMENT:

Total Plastic Waste generation	44924 MTPA (From 88 ULBs and 04 Cantt. Baords).
Treatment/Measures adopted for reduction or management of plastic waste	57 Nos. Plastic Compactors are functional on cluster basis to cater 91 ULBs. Rs. 154.68 Lakhs has been released by the UKPCB for this purpose. - Revenue generated from the plastic compactors is Rs. 366.62 Lakh by selling of compacted plastics/bails till date - Total capacity of Compactor is 255 Tonnes per day. 53 Plastic Waste recycling units are registered with the Uttarakhand Pollution Control Board with an installed recycling capacity of 177000Ton/Annum. - State Level Monitoring Committee (SLMC) for Plastic Waste Management has been constituted by the State Government vide G.O. No. 1445/IV(3)-201912(1 Sa.)/2017 dated 03.07.2019. - The Government of Uttarakhand has imposed restriction on supply, carry, storage, transportation, manufacturing, sale, purchase and import of identified Single Use Plastic items vide notification dated 16.02.2021. - The Government of Uttarakhand has constituted a Special Task Force under chairmanship of Chief Secretary and District Level task Force under chairmanship of District Magistrate vide notification dated 31.08.2021 to eliminate banned single use plastic items, in mission mode. - Awareness campaign is being done for elimination of banned single use plastic items in the State.

OTHERS:

8.	Details of Alternate Treatment Technology being adopted by the State/UT	The treatment technologies i.e., SBR, MBBR, SBT and Electro Coagulation are being used in the State for STPs. In addition of above, Bio remediation treatment technology has been adopted for treatment of drains for the period till STPs are constructed and becomes functional.
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9.	Identification of polluting sources including drains contributing to river pollution and action as per NGT order on in situ treatment.	Main Ganga Stream: Total 135 drains identified along the main stream of river Ganga. Out of 135 drains, 131 drains sanctioned by NMCG New Delhi. Remaining 4 drains, 3 drain of Srikot have not sanctioned because BOD<30 and 1 drain of Rawali Mehdood is under Sidcul. Out of 131 sanctioned drains 128 drains have been tapped, remaining 03 drains of Joshimath to be tapped by August, 2022. Dehradun: Total 177 nos small household drains has been sanctioned for I&D under Namami Gange Programme. Work is in progress. 142 Nos. drains tapped at Rispana River & 95% I&D works completed at Bindal River and expected to be completed September, 2022. Ramnagar: Total 06 nos. drains has been sanctioned under Namami Gange programme. All Nala have been tapped. 09 Polluted Stretches: A. 17-drains has been sanctioned under Namami Gange for 6 stretches (Bhela, Dhela, Kichha, Kosi, Nandhore, Pilkhar and Kashipur Distt. Udham Singh Nagar). Work is in progress." B. The polluting stretch Kalyani River (Kumaon), DPR is under preparation by UKPJN & consultant has been finalised. DPR expected to be submitted. C. The polluting stretch Suswa River (Dehradun) is taken up under DPR approved for I&D works of Rispana & Bindal Rivers under Namami Gange Projects. D. Polytechnic drains or Lakkarghat drain is the treated effluent channels for new 26 MLD STP based on SBR technology has been commissioned at Lakkarghat. E. The polluted River stretch (from Haridwar to Sultanpur) is already meeting the bathing water criteria and considered as model River. Bio-remediation of drains – DPR of Rs. 259 Lakh was approved by NMCG for total 19 drains on dated 14.12.2020. 06 Drains Kichch River. 03 Drains Suswa River. 01 Drains Rispana River. 01 Drains Bindal River. 07 Drains River Bhella, Kichcha and Pilakhar.
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		01 Drains Ukrouli, Sitraganj. Bioremediation works has been completed.
10.	Details of Nodal Officer appointed by Chief Secretary in the State/UT	Environmental Cell has been setup in the office of Chief Secretary, Govt. of Uttarakhand.
11.	Details of meetings carried under the Chairmanship of Chief Secretary in the State/UT	Meetings of CMC held on dated 10.02.2021, 04.03.2021, 09.07.2021, 15.11.2021, 04.02.2022 09.06.2022 and 20.09.2022.
12.	Latest water quality of polluted river, its tributaries, drains with flow details and groundwater quality in the catchment of polluted river.	Surface water quality monitoring of 09 polluted river stretches during the month of August, 2022 is enclosed as Annexure-2 . It is state that River Ganga (Haridwar to Sultanpur) (Priority-IV) is already achieved Class "B" water, therefore, may be de-listed from the polluted river stretches.
13.	Groundwater regulation	----
14.	Good irrigation practices being adopted by the State.	Treated waste water of 27 MLD & 68 MLD STP's at Jagjeetpur, Haridwar is already being re-used for irrigation through Canal system constructed for this purpose. A part from this micro irrigation practices such as sprinkler and drip irrigation is being adopted by the irrigation department.
15.	Rain Water Harvesting	It is being implemented through Catch the Rain Campaign.
16.	Demarcation of Floodplain and removal of illegal encroachments.	Polluted River stretches: - Out of 09 polluted river stretches, 05 are non-perennial, therefore, no flood zoning is required as per irrigation department. 01 Ganga River stretches Flood plain zoning has been notified. - Rest of 03 rivers Kosi, Suswa & Gola (Kichcha) flood plain zoning are under progress, which will likely to be completed by December, 2022.
17.	Maintaining minimum e-flow of river.	Government of Uttarakhand has directed to all Hydro Electric Projects Developers in the State of Uttarakhand to release minimum E-Flow of 15 % of the average lean season.

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		Uttarakhand Jal Vidhyut Nigam Ltd (UJVNL) as the nodal agency for the compliance of minimum E-Flow in the State of Uttarakhand. As per the information provided by the UJVNL (August, 2022): ▪ All 07-HEPs located in the main Ganga basin and having > 25 MW capacity, are complying with e-flow norms. ▪ Out of 05-HEPs located in other than main Ganga basin and having > 25 MW capacity, 04 HEPs are complying with e-flow norms, however, 01 HEP (Tanakpur HEP of NHPC) has not submitted the data of e-flow. ▪ Out of 17 HEPs having <25 MW capacity located in the State, 15 HEPs are complying with e-flow norms, however, 02 HEPs informed that due to high flow in the river, discharge could not be measured. Details of E-flow in the month of August, 2022 is enclosed as Annexure 3-A, 3-B & 3-C.																																												
18.	Plantation activities along the rivers.	1. Plantations in Catchments of Ganga & its Tributaries under various schemes of CAMPA in Uttarakhand: <table><tr><th>S. No.</th><th>Year</th><th>Plantations (ha)</th></tr><tr><td>1.</td><td>2020-21</td><td>5181.64</td></tr><tr><td>2.</td><td>2021-22</td><td>3781.46</td></tr><tr><td></td><td>Total</td><td>8963.1</td></tr></table> 2. Activities implemented under River Rejuvenation scheme of CAMPA: <table><tr><th>S. No.</th><th>Year</th><th>Name of Activity</th><th>Unit</th><th>Achievement</th></tr><tr><td>1.</td><td>2018-19</td><td>Plantation</td><td>Nos.</td><td>180000</td></tr><tr><td>2.</td><td>2019-20</td><td>Plantation</td><td>Nos.</td><td>47000</td></tr><tr><td>3.</td><td rowspan="4">2020-21</td><td>Plantation</td><td>Nos.</td><td>60000</td></tr><tr><td>4.</td><td>Contour Trenches</td><td>Nos.</td><td>83376</td></tr><tr><td>5.</td><td>Recharge Ponds</td><td>Nos.</td><td>1999</td></tr><tr><td>6.</td><td>Percolation Tanks</td><td>Nos.</td><td>530</td></tr></table>	S. No.	Year	Plantations (ha)	1.	2020-21	5181.64	2.	2021-22	3781.46		Total	8963.1	S. No.	Year	Name of Activity	Unit	Achievement	1.	2018-19	Plantation	Nos.	180000	2.	2019-20	Plantation	Nos.	47000	3.	2020-21	Plantation	Nos.	60000	4.	Contour Trenches	Nos.	83376	5.	Recharge Ponds	Nos.	1999	6.	Percolation Tanks	Nos.	530
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7.		Assisted Natural Regeneration	Ha	124
8.	2021-22	Plantation	Ha	55
9.		Water Bodies (10 KL)	Nos.	8
10.		Water Bodies (20 KL)	Nos.	22
11.		Water Bodies (40 KL)	Nos.	8
12.		Water Bodies (50 KL)	Nos.	10
13.		Water Harvesting Tanks	Nos.	53
14.		Check Dams	Nos.	81
15.		Contour Trenches	Nos	25166

3. Work under Hon. NGT order in OA 673/2018 (Treatment of critically polluted river stretches (namely Bhella, Dhella, Suswa, Pilakhar, Nandhour and Kalyani rivers):

S. No.	Year	Name of Activity	Unit	Achievement
1.	2020-21	Plantation	Nos.	4000
2.		Crate Wire Wall	Nos.	12
3.		Spur	Nos.	26
4.		Contour Trenches	RM.	2000
5.		Check Dams	Nos.	142
6.	2021-22	Advance Soil Works	Ha	6
7.		Pitching Work	CUM	882
8.		CC Blocks	RM	69.5

4. Works under conservation of flood plain zones of Ganga River in OA No. 200/2014:

S. No.	Year	Name of Activity	Unit	Achievement
1.	2021-22	Advance Soil Works	Ha	131.94
2.		Check Dams	Nos.	1142

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		5. Works Proposed: Proposals worth Rs. 300.00 lakh for plantations, catchment area treatment and other works under Hon. NGT order in OA 673/2018-treatment of critically polluted rivers; Rs. 388.69 Lakh in OA 200/2014 - treatment of Ganga Flood Plain Zone and Rs. 183.20 Lakh in OA 325/2015 - Conservation and Development of Wetlands, have been submitted under CAMPA to the National Authority. It is submitted that Indian Institute of Soil and Water Conservation (IISWC), Kaulagarh Road, Dehradun has been requested to prepare a DPR for treatment of the 06 polluted rivers through plantation activities on both sides of the river under Hon'ble NGT order in OA 673/2018.
19.	Development of biodiversity park	-----
20.	Reuse of treated Water.	Treated waste water of 27 MLD & 68 MLD STP's at Jagjeetpur, Haridwar is already being re-used for irrigation through Canal system constructed for this purpose.
21.	Model River being adopted by the State & Action Proposed for achieving the bathing.	River Ganga from Haridwar to Sultanpur stretch has been identified as a model river for achieving the bathing quality standards. The model River report has been prepared and approved by River Rejuvenation Committee meeting held on 10.02.2021.
22.	Status of preparation of Action Plan by the 13 Coastal States	Not related to the State of Uttarakhand.
23.	Regulation of Mining Activities in the State/UT.	River Bed Mining in the State of Uttarakhand is carried out in a scientific and highly regulated manner as per the provisions of State Mining Policy and Uttarakhand Minor Minerals Rules, 2001 (Amended time to time) taking due care of environment and ecology of the area. It is compulsory to obtain Environment Clearance under EIA Notification 2006 prior to sanction of RBM Leases. Excavation of RBM is carried out as per approved mining plan and the Sustainable Sand Mining Guidelines-2016 of Ministry of Environment, Forest And Climate Change, Government of India within the demarcated area up to a depth of 03 meter or ground level whichever is less. It is also compulsory to obtain Consent to Establish and Operate from

	State Pollution Control Board before commencing the Excavation of RBM. Excavation of RBM is done manually. The State Mining Policy and Rules does not permit use of machines i.e. JCB, Poclane etc. for excavation of River Bed Material. Thus excavation of RBM does not have any adverse effect on environment and ecology. Further, as per the existing mining policy 2016 mining activities are not permitted from 30th June onwards up to 30th September during the Monsoon season. Also mining is prohibited from sunset to sunrise. The State Government has constituted a District Mining Fund (DMF) and promulgated District Mining Foundation Rule-2017 which provides that 25% of the Royalty of RBM excavated shall be deposited in DMF Fund which shall be utilized in the mining affected areas. The DMF Fund so collected is utilized in high priority areas like environment protection and pollution control, drinking water supply and health care, and cleanliness etc. and other priority areas like improving the quality of environment. Thus the State Government is taking due care to safeguard the environment and ecology of the mining affected areas. The State Government is committed to stop illegal mining, illegal storage and illegal transportation of mineral. In order to prevent illegal mining, illegal transportation and illegal storage, the State Government has formulated Uttarakhand Mineral (illegal mining, transportation and storage prevention) Rules, 2021 under section 23 C of Mines and Mineral Regulation and Development Act, 1957. In the Rule 14 (5) (ka) of the said rule, the provision has been made to impose a penalty on persons found guilty of illegal mining and illegal storage of mineral and also on the seized River Bed Illegal Material. In the rule 14 (2) provisions have been made to penalize the vehicles involved in illegal transportation. At District level an Anti Mining Cell comprising of officials from Revenue Department, Mining Department, Forest Department and Police Department is constituted for checking illegal mining, illegal storage and illegal transportation. To transport
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		mineral from one place to another place a transit																																								
		<table><tr><th>S. N.</th><th>Financial Year</th><th>Illegal mining/storage/ transportation cases</th><th>Penalty (In Rs. Crore)</th></tr><tr><td>1.</td><td>2015-2016</td><td>1324</td><td>12.27</td></tr><tr><td>2.</td><td>2016-2017</td><td>1424</td><td>4.41</td></tr><tr><td>3.</td><td>2017-2018</td><td>3231</td><td>9.44</td></tr><tr><td>4.</td><td>2018-2019</td><td>2649</td><td>26.99</td></tr><tr><td>5.</td><td>2019-2020</td><td>2502</td><td>9.62</td></tr><tr><td>6.</td><td>2020-2021</td><td>2752</td><td>18.05</td></tr><tr><td>7.</td><td>2021-2022</td><td>1818</td><td>13.17</td></tr><tr><td>8.</td><td>2022-23 (August 2022)</td><td>1040</td><td>9.64</td></tr><tr><td colspan="2">Total-</td><td>16,740</td><td>103.59</td></tr></table> pass (rawana) is mandatory as per the relevant Rules. At every mine's entry and exit gate installation of CCTV camera and weigh bridges have been made compulsory. The State Government is also planning to enforce use of a vehicle tracking system on all the vehicles involved in transportation of minerals, so that the real time movement of vehicles can be tracked. Thus the State Government is committed to ensure sustainable and scientific River Bed Mining in the State. The enforcement work done to prevent illegal mining/illegal transportation/illegal storage in the last seven financial years is as follows:- Thus the State Government is committed to stop illegal mining, illegal storage and illegal transportation of mineral in the State.	S. N.	Financial Year	Illegal mining/storage/ transportation cases	Penalty (In Rs. Crore)	1.	2015-2016	1324	12.27	2.	2016-2017	1424	4.41	3.	2017-2018	3231	9.44	4.	2018-2019	2649	26.99	5.	2019-2020	2502	9.62	6.	2020-2021	2752	18.05	7.	2021-2022	1818	13.17	8.	2022-23 (August 2022)	1040	9.64	Total-		16,740	103.59
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24.	Action against identified polluters, Law violators and officers responsible for failure for vigorous monitoring.	Uttarakhand Pollution Control Board has collected a sum of Rs. 2,27,70,061.00 from various defaulters / law violators as an environment compensation.																																								



Annexure-1

Solid Waste Management (SWM) Data August 2022

Year	DistrictName	ULBName	Total Wards	Wards with 100% D2D Collection	Wards with 100% Source segregation	Generation (MT)	Processed (MT)
1	ALMORA	DWARHAT	4	4	4	1.5	1.5
2	ALMORA	ALMORA	13	13	13	7.7	7.6
3	ALMORA	RANIKHET-CHILYANAULA	7	7	7	3.9	3.9
4	ALMORA	BHIKYASAIN	4	4	4	1.5	1.5
5	ALMORA	CHAWKHUTIYA	4	4	0	0.0	0.0
6	BAGESHWAR	BAGESHWAR	11	11	11	7.5	4.4
7	BAGESHWAR	KAPKOT	7	7	7	2.0	1.7
8	CHAMOLI GOPESHWAR	BADRINATH	4	4	4	0.1	0.1
9	CHAMOLI GOPESHWAR	JOSHIMATH	9	9	9	3.1	1.0
10	CHAMOLI GOPESHWAR	CHAMOLI-GOPESHWAR	11	11	11	3.4	2.6
11	CHAMOLI GOPESHWAR	NANDPRAYAG	4	4	4	0.5	0.3
12	CHAMOLI GOPESHWAR	GAUCHAR	7	7	7	5.0	3.7
13	CHAMOLI GOPESHWAR	KARNAPRAYAG	7	7	7	3.1	0.8
14	CHAMOLI GOPESHWAR	GAIRSAIN	7	7	7	1.2	1.0
15	CHAMOLI GOPESHWAR	POKHARI	7	7	7	2.0	2.0
16	CHAMOLI GOPESHWAR	THARALI	4	4	4	0.2	0.0
17	CHAMOLI GOPESHWAR	PIPALKOTI	4	4	4	0.5	0.0
18	CHAMPAWAT	CHAMPAWAT	9	9	7	4.5	0.3
19	CHAMPAWAT	LOHAGHAT	7	7	7	2.6	0.0
20	CHAMPAWAT	TANAKPUR	11	11	5	3.7	1.7
21	CHAMPAWAT	BANBASA	7	7	7	2.0	1.0
22	DEHRADUN	VIKASNAGAR	11	11	11	7.3	20.8
23	DEHRADUN	HERBERTPUR	9	9	9	5.0	0.0
24	DEHRADUN	MUSSOORIE	13	13	13	13.4	13.4
25	DEHRADUN	DEHRADUN	100	100	100	387.0	387.7
26	DEHRADUN	DOIWALA	20	20	20	30.0	31.3
27	DEHRADUN	RISHIKESH	40	40	40	77.4	8.9
28	DEHRADUN	SELAQUI (CENTRAL HOPETOWN)	9	9	0	6.5	0.0
29	HARDWAR	ROORKEE (NN)	40	40	40	96.8	90.6
30	HARDWAR	JHABRERA	9	9	9	10.0	0.0
31	HARDWAR	MANGLAUR	20	20	20	27.1	0.0
32	HARDWAR	LANDHAURA	9	9	9	6.8	0.0
33	HARDWAR	HARDWAR	60	60	60	169.5	169.5
34	HARDWAR	LAKSAR	11	11	11	6.2	6.2
35	HARDWAR	SHIVALIK NAGAR	13	13	13	9.5	0.0
36	HARDWAR	BHAGWANPUR	9	9	9	8.7	0.0
37	HARDWAR	PIRAN KALIYAR	9	9	9	7.0	0.0
38	NAINITAL	NAINITAL	15	15	15	14.5	14.6
39	NAINITAL	BHOWALI	7	7	7	2.0	1.7
40	NAINITAL	BHIMTAL	9	9	9	2.3	2.3
41	NAINITAL	HALDWANI	60	60	44	44.1	0.0
42	NAINITAL	RAMNAGAR U	20	20	20	13.6	4.0
43	NAINITAL	KALADHUNGI	7	7	7	3.5	0.0
44	NAINITAL	LALKUAN	7	7	7	3.2	1.8
45	PAURI GARHWAL	SRINAGAR	13	13	13	10.0	9.4
46	PAURI GARHWAL	PAURI	11	11	11	7.7	0.0

47	PAURI GARHWAL	DOGADDA	4	4	4	0.2	0.0
48	PAURI GARHWAL	KOTDWARA	40	40	40	58.7	58.7
49	PAURI GARHWAL	SWARGASHRAM	4	4	4	2.4	0.6
50	PAURI GARHWAL	SATPULI	4	4	4	1.3	1.3
51	PITHORAGARH	DHARCHULA	7	7	7	3.5	0.0
52	PITHORAGARH	DIDIHAT	7	7	7	3.1	0.0
53	PITHORAGARH	PITHORAGARH	20	20	11	27.1	12.6
54	PITHORAGARH	GANGOLIHAT	7	7	7	0.3	0.0
55	PITHORAGARH	BERINAG	7	7	7	1.5	0.0
56	RUDRAPRAYAG	KEDARNATH	1	1	1	0.0	0.0
57	RUDRAPRAYAG	RUDRAPRAYAG	7	7	7	3.2	1.1
58	RUDRAPRAYAG	UKHIMATH	4	4	4	0.1	0.0
59	RUDRAPRAYAG	AUGUSTMUNI	7	7	7	1.5	1.5
60	RUDRAPRAYAG	TILWARA	4	4	4	0.5	0.5
61	TEHRI	KIRTINAGAR	4	4	4	0.6	0.6
62	TEHRI	DEVAPRAYAG	4	4	4	1.9	0.0
63	TEHRI	TEHRI	11	11	11	7.3	7.3
64	TEHRI	CHAMBA_U	9	9	9	3.3	3.3
65	TEHRI	NARENDRANAGAR	7	7	7	1.2	1.2
66	TEHRI	MUNI-KI-RETI	11	11	11	13.7	13.7
67	TEHRI	GHANSALI	7	7	7	1.9	1.9
68	TEHRI	LAMB GAON	4	4	4	0.8	0.0
69	TEHRI	GAJA	4	4	4	1.0	1.0
70	TEHRI	CHAMIYALA	7	7	7	1.0	0.5
71	UDHAMSINGH NAGAR	KASHIPUR	40	40	25	59.7	0.0
72	UDHAMSINGH NAGAR	MAHUA KHERAGANJ	9	9	0	2.1	0.0
73	UDHAMSINGH NAGAR	MAHUADABRA	7	7	7	3.4	0.0
74	UDHAMSINGH NAGAR	JASPUR	20	20	12	24.2	0.0
75	UDHAMSINGH NAGAR	SULTANPUR_U	7	7	7	3.9	0.6
76	UDHAMSINGH NAGAR	BAZPUR	13	13	13	10.5	0.0
77	UDHAMSINGH NAGAR	KELA KHERA	9	9	9	4.4	0.0
78	UDHAMSINGH NAGAR	RUDRAPUR	40	40	38	76.9	1.7
79	UDHAMSINGH NAGAR	KICHHA	20	20	15	23.9	0.0
80	UDHAMSINGH NAGAR	GADARPUR	11	11	11	8.0	8.0
81	UDHAMSINGH NAGAR	DINESHPUR	9	9	9	4.7	4.0
82	UDHAMSINGH NAGAR	SHAKTIGARH	7	7	7	1.2	0.0
83	UDHAMSINGH NAGAR	SITARGANJ	13	13	13	19.0	0.0
84	UDHAMSINGH NAGAR	KHATIMA	20	20	0	16.3	8.1

85	UDHAMSINGH NAGAR	NANAKAMTTA	7	7	7	4.0	0.0
86	UDHAMSINGH NAGAR	GULARBHOJ	7	7	7	2.8	1.7
87	UTTARKASHI	BARKOT (NPP)	7	7	7	3.0	3.0
88	UTTARKASHI	BARAHAT UTTARKASHI	11	11	11	9.7	9.7
89	UTTARKASHI	GANGOTRIDHAM	4	4	4	0.0	0.0
90	UTTARKASHI	PUROLA	7	7	7	2.3	0.5
91	UTTARKASHI	CHIMYALISUR	7	7	7	2.5	1.0
92	UTTARKASHI	NAUGAON	7	7	7	2.0	1.8
Monthly Data			1152	1152	1047	1450.4	943.2
Daily Data			1152	1152	1047	46.8	30.4

The Surface Water Quality of 09 polluted river stretches for the month of August, 2022

S. No.	Name of Polluted River Stretches	Sampling Date	US/DS	Location	Latitude-Longitude	pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	EC (μ S/cm)	TDS (mg/l)	Total Coliforms (MPN /100ml)	Faecal Coliform (MPN /100 ml)
1	Dhella	26.08.2022	US	Dhella Bridge, Kashipur, Bhelijudi	29°13'12" N 78°56'42" E	7.5	4.2	3.6	22	215	141	280	170
		26.08.2022	DS	Gehrualia Village Pratappur	29°08'30" N 78°05'20" E	7.3	1.4	22	176	417	278	430	280
2	Bhella	26.08.2022	US	Bahella Bridge, Kashipur	29°16'43" N 79°01'19" E	River Dry							
		26.08.2022	DS	Bahella River rajpura tanda	29°07'45" N 78°59'03" E	7.0	1.4	60	193.6	558	371	350	220
3	Kichha	27.08.2022	US	Main Road Kichha	28°57'43" N 79°32'17" E	7.4	6.7	4	17.6	222	147	540	280
		27.08.2022	DS	Kichha Bridge	29°52'59" N 79°30'56" E	7.4	4.3	12	52.8	300	197	540	350
4	Suswa	04.08.2022	US	Mothrawala	30°13'59" N 78°01'48" E	7.26	4.8	18	76	334	220	≥1600	≥1600
		04.08.2022	DS	Barafutta	30°8'19.9" N 78°7'49.8" E	7.10	7	1.4	5.6	263	174	63	41
5	Kalyani	27.08.2022	US	Pantnagar Ind. Area Rudrapur	29°01'44" N 79°24'28" E	7.4	3.5	8	26.4	352	232	430	150
		27.08.2022	DS	Rampura ground Rudrapur	28°57'52" N 79°24'08" E	7.1	0.8	44	281.6	534	353	920	350
6	Kosi	26.08.2022	US	Bajpur bridge Sultanpur patti	28°09'32" N 79°02'19" E	7.1	6.5	4	17.6	328	217	540	280
		26.08.2022	DS	Bypass bridge Pattikalan	29°04'31" N 79°02'24" E	7.1	6	6	35.5	339	226	920	540
7	Pilakhar	27.08.2022	US	Bajpur	29°10'21" N 79°08'44" E	7.2	5.2	4.4	18	732	487	430	220
		27.08.2022	DS	Rampur (U.P.)	29°12'12" N 78°58'42" E	7.3	4.6	11	44	512	340	430	170
8	Nandhour	27.08.2022	US	Sitarganj	29°04'36" N 79°41'36" E	7.6	6.4	3.2	11	172	111	280	110
		27.08.2022	DS	Nandhor Bridge, Sitarganj	28°55'149" N 79°44'38" E	7.4	5.2	4.4	20	202	133	430	210
9	Ganga	05.08.2022	US	Bindughat Dudhiyaban	29.970608°N 78.183854°E	7.90	8.3	1.2	6	294	188	110	39
		05.08.2022	DS	Sultanpur	29.699043°N 78.166559°E	8.20	8	1.4	7	202	129	120	48

**Status of release of E-flow as per MoWR, RD&GR order dated 09.10.2018 from the Hydro projects (> 25 MW)
situated in the river/tributary of Ganga river basin in the State of Uttarakhand
(August 2022)**

S.No.	Name of Hydro Power Project	Capacity (MW)	District	Developer	Season	Months	Average E-flow Mandated (cumecs)	Compliance of e-flow notification			
								Average River Discharge (Cumecs)	E-Flow Released (Cumecs)	% of E-Flow released	Remark
1	Vishnuprayag HEP	400	Chamoli	J.P venture	High Flow	Aug-22	28.57	122.14	69.89	57.22%	
2	Srinagar HEP	330	Pauri Garhwal	GVK	High Flow	Aug-22	338.11	1200.71	652.38	54.33%	
3	Singoli Bhatwari HEP	99	Rudraprayag	L&T	High Flow	Aug-22	33.93	204.24	149.38	73.14%	
4	(Tehri Dam + Koteswar Dam)	(1000 + 400)	Tehri	THDCIL	High Flow	Aug-22	163.94	721.87	336.10	46.56%	
5	Tiloth Power Station (Maneri Dam)	3 x 30 = 90	Uttarkashi	UJVNL	High Flow	Aug-22	73.39	367.93	338.38	91.97%	
6	Dharasu Power Station (Joshiyara Barrage)	4 x 76 = 304	Uttarkashi	UJVNL	High Flow	Aug-22	113.87	444.42	294.54	66.28%	
7	Chilla Power Station	4 x 36 = 144	Pauri Garhwal	UJVNL	High Flow	Aug-22	328.84	2132.09	1518.12	71.20%	

* As per MoWR RD&GR order dated 09.10.2018 20%, 25% and 30% of monthly average flow observed during each of preceding 10-daily period

**Status of release of E-flow as per NGT order dated 09.08.2017 from the Hydro projects (> 25 MW)
situated in the river/tributary other than Ganga river basin in the State of Uttarakhand
(August 2022)**

S.No	Name of Hydro Power Project	Capacity (MW)	District	Developer	Months	E-Flow Norms*	Compliance of e-flow notification			Remark
							Average lean season flow (Cumecs)	E-Flow Released (Cumecs)	% of E-Flow released	
1	Dhauliganga HEP	280	Pithoragarh	NHPC	Aug-22		4.00	54.43	1360.75%	
2	Tanakpur	120	Champawat	NHPC	Aug-22		E-flow data for the month of August 2022 not submitted by the developer yet.			E-flow data for the month of August 2022 not submitted by the developer yet.
3	Dakpathar Barrage (Dhalipur + Dhakrani)	(51 + 33.75)	Dehradun	UJVNL	Aug-22	Minimum 15% of Average Lean Season flow	67.71	521.21	769.77%	
4	Kulhal	30	Dehradun	UJVNL	Aug-22		13.03	100.74	773.14%	
5	Ichadi Dam (Chibro + Khodri)	(240 + 120)	Dehradun	UJVNL	Aug-22		72.46	11.50	15.87%	

* As per Hon'ble National Green Tribunal (NGT) order dated 09.08.2017 in Original Application no. 498 of 2015 (M.A No. 628/2016) Pushp Saini Vs MoEF&CC, Gol and others, Government of Uttarakhand vide order dated 05.06.2018 directed all the hydro project developers in the State of Uttarakhand to release minimum e-flow of 15% of the average lean season flow of that river from their projects.

Status of release of E-flow as per NGT order dated 09.08.2017 from the Small Hydro projects (<25 MW) situated in the river/tributary Ganga & other river basin in the State of Uttarakhand (August 2022)

S.No.	Name of Hydro Power Project	Capacity (MW)	District	Developer	Months	E-Flow Norms*	Compliance of e-flow notification			
							Average lean season flow (Cumecs)	E-Flow Released (Cumecs)	% of E-Flow released	Remark
1	Loharkhet	4.8	Bageshwar	Parvatiya Power	Aug-22	Minimum 15% of Average Lean Season flow	1.47	6.25	425.17%	
2	Gangani	8	Uttarkashi	Regency Gangani Energy	Aug-22		5.10	10.63	208.43%	
3	Badyar	4.9	Uttarkashi	Regency Yamuna Energy	Aug-22		1.30	5.95	457.69%	
4	Sarju-II	15	Bageshwar	Uttar Bharat Hydro	Aug-22		-	-	-	Developer inform that due to high inflow in river, discharge could not be measured
5	Sarju-III	10.5	Bageshwar	Uttar Bharat Hydro	Aug-22		-	-	-	
6	Motighat	5	Pithoragarh	Himalya Hydro (P) Ltd	Aug-22		3.04	10.00	328.95%	
7	Tanga	5	Pithoragarh	Himalya Hydro (P) Ltd	Aug-22		3.04	10.00	328.95%	
8	Galogi SHP	3.5 MW	Dehradun	UJVNL	Aug-22		0.55	0.10	18.18%	
9	Ram Prasad Nautiyal, Dunaoh SHP	1.5 MW	Pauri Garhwal	UJVNL	Aug-22		3.01	0.77	25.58%	
10	Rajwakti	3.6	Chamoli	Him Urja	Aug-22		72.64	65.06	89.56%	
11	Vanala	15	Chamoli	Him Urja	Aug-22		55.72	50.23	90.15%	
12	Debal	5	Chamoli	Chamoli Hydro	Aug-22		2.50	15.54	621.60%	
13	Agunda Thatri	3	Tehri	Gunsola Hydro	Aug-22		7.99	1.20	15.02%	
14	Bhilangana	22.5	Tehri	Swasti Power	Aug-22		142.66	120.15	84.22%	
15	Bhilangana-III	24	Tehri	Bhilangna Hydro Power	Aug-22		36.18	54.43	150.44%	
16	Birahiganga	7.2	Chamoli	Birahiganga Hydro Power	Aug-22		2.70	17.81	659.63%	
17	Pilangad SHP	2.25	Uttarkashi	UJVNL	Aug-22		8.19	7.67	93.65%	
18	Urgam SHP	3	Chamoli	UJVNL	Aug-22		4.86	3.65	75.10%	
19	Kaliganga-I SHP	4	Rudrapur	UJVNL	Aug-22		6.00	3.00	50.00%	
19	Kaliganga-II SHP	4.5	Rudrapur	UJVNL	Aug-22		10.54	3.25	30.83%	

* As per Hon'ble National Green Tribunal (NGT) order dated 09.08.2017 in Original Application no. 498 of 2015 (M.A. No. 628/2016) Puship Saini Vs MoEF&CC, G.O. and others, Government of Uttarakhand vide order dated 05.06.2018 directed all the hydro project developers in the State of Uttarakhand to release minimum e-flow of 15% of the average lean season flow of that river from their projects