



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)/2022/1572, Dehradun, December 31, 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 October, 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 October, 2022 along with Annexure 1 to 4 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 & eepkm.cpcb@nic.in.

Enclosed: As above.

Yours' faithfully,

(S.K. Pattnaik)
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 P.K. Mishra, 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.**

OCTOBER, 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	64 Nos.		
No. of Non-Operational STPs	03 Nos. (i) 1.080 MLD STP at Pokhri, Joshimath. (ii) 0.075 MLD STP near Anoop Negi Achool, Rudraprayag. (iii) 10 MLD capacity Rusi Pond at Nainital.		
No. of Complying STP's (Out of 64 Operational STPs monitored in the month of October, 2022)	- As per standards notified by MoEF& CC: 63 - As per standards prescribed by the Hon'ble NGT order dated 30.04.2019: 42.		

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No. of Non-complying STP's (Out of 64 Operational STPs monitored in the month of October, 2022)				- As per standards notified by MoEF&CC: 01 - As per standards prescribed by the Hon'ble NGT order dated 30.04.2019: 22			
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 October, 2022:
Updated by UKPCB

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	Non-operational due to breakage of sewer line.		
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
7.	Gopeshwar (Vivekanand Colony) Distt.-Chamoli	1.19	0.50	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
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 Complex), Distt-Rudraprayag	0.10	0.08	Operational	Complying	Complying
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

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
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	Non-operational		
24.	Kirtinagar (Near Temple), Distt-Tehri	0.01	0.01	Operational	Complying	Non-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	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	Non-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
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 be 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	0.075	0.070	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.- Pauri					
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	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 Distt.-Dehradun	20.00	13.52	Operational	Complying	Non-Complying
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	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	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

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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
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
62.	Roosi, Nainital, Distt.- Nainital	10.00	6.75	Non-Operational. New STP of 17.5 MLD capacity is under construction.		
63.	Ancholi, Pithoragarh Distt.-Pithoragarh	5.00	1.00	Operational	Complying	Non-Complying
64.	Nirada, Pithoragarh Distt.- Pithoragarh	1.25	0.80	Operational	Complying	Non-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	99%	Trial run started	December, 2022

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No.	Location	Capacity of the plant in MLD	Physical progress in %	Status of I & D or House sewer connections	Completion Timeline
3.	Haldwani (Indira Nagar) Distt. -Nainital	28.00	99%	Trial run started	December, 2022
4.	Kashipur Distt. -US Nagar	18.00	85%	-	December, 2022
5.	Kashipur Distt. U.S. Nagar (Proposed under River Rejuvenation of Dhella)	10.00	15%	I&D – 50%	DOC-06.01.2024
6.	Mukhandpur, Kashipur, Distt. U.S. Nagar (Proposed under River Rejuvenation of Kosi)	0.50	Land purchased & work started.		DOC-06.01.2024
7.	Gularia, Kashipur Distt. U.S. Nagar (Proposed under River Rejuvenation of Dhella)	0.30	Land purchased & work started.		DOC-06.01.2024
8.	Jaspur Khurd, Kashipur Distt. U.S. Nagar (Proposed under River Rejuvenation of Bhella)	1.00	15%	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 started.		DOC-06.01.2024
11.	Bazpur Distt. U.S. Nagar (Proposed under River Rejuvenation of Pilakhar)	10.00	Land purchased & work started.		DOC-06.01.2024
12.	Kichha, Rudrapur Distt. U.S. Nagar (Proposed under River Rejuvenation of Kichha)	3.00	Land purchased & work started.		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.		DOC-07.05.2025
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.		DOC-08.06.2025
17.	Banjarawala Package -1	11.00	Work awarded and review of detail design is in progress.		DOC-16.06.2025

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No.	Location	Capacity of the plant in MLD	Physical progress in %	Status of I & D or House sewer connections	Completion Timeline
	Total	146.00			

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		
13.	Haldwani Distt. Nainital	10.5	DPR under Preparation (ADB funded project).	
14.	Haldwani, Nainital Septage Co-Treatment Plant	0.14	DPR under Preparation (ADB funded project).	
15.	Vikasnagar, Distt. Dehradun	7.0	DPR under Preparation (ADB funded project).	
16.	Vukasnagar, Dehradun Septage Co-Treatment Plant	0.01	DPR under Preparation (ADB funded project).	
	Total	41.15		

- 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	11063 5994- Industrial Operation 5069-Non-Industrial Operation
No. of water polluting industries in the State	1001
Quantity of effluent generated from the industries in MLD	96 MLD
Quantity of Hazardous Waste generated from the industries	22586.24 Tonnes (Year 2021-22)
Number of industrial units having ETPs	1001
Number of industrial units connected to CETPs	1101
Number and total capacity of ETPs (details of existing/ under construction/proposed)	120.35 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	03 CETPs are operational. 02 CETP located at Pantnagar and Sitarganj are complying with prescribed discharge norms, While CETP at IIE

	Haridwar found non-comply in September, 2022.
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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). CETP found non-complying in September, 2022 with respect to 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 97 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	1535.507 MTPD
Current Municipal Solid Waste Processed	1062.075 MTPD ULB wise details in enclosed as Annexure-1 .
Number, installed capacity and utilization of existing MSW	Two waste processing & Sanitary Land Fill facilities (SLF) (Dehradun: 200 Ton/day &

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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 Pl. also specify total quantum of waste processing in the State. 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	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 38 Material Recovery Facility is functional having total capacity of 230 MTPD. <i>In NPP Muni-ki-Reti, a 5MTPD capacity Plastic to Plank system has been installed.</i> <i>Plastic Compactors- 60 Nos. (Operational). The total capacity of Plastic Compactor in ULBs is 270 Tones per day.</i> <i>Revenue generated from the plastic compactors is Rs. 386.71 Lacs by selling compacted plastics/ bails.</i>
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) –440.654 TPD Daily Waste Processed (Average)- 440.654 TPD (100%). Haridwar: Plant Installed Capacity- 150 TPD (8hr running capacity) Daily Solid Waste Collected – 126.032 TPD Daily Waste Processed- 126.032 TPD (59.67%)
Nos. and capacity of C&D waste processing plants in TDP (existing, proposed and under construction)	<i>Baseline study has been done for collection of data for constructing C & D waste Management Plant in Dehradun, DPR of Rs.15 Cr has been prepared and is being technically examined.</i> 76 ULBs have reported that the generated C&D waste is being used in backfilling/ filling of low-lying lands. 08 have identified site for this purpose and C&D Plant is proposed in Dehradun, Rishikesh and Kashipur under NCAP (National Clean Air Program) for which Site has been identified. Remaining 8 ULBs are in process of identification of site.
Total no. of wards, no. of wards having door to door collection	Total number of Wards-1152 Door to door Collecton-1152 Source Segregation-1047

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service, no. of wards practicing segregation at source.				
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	Current Status	Total DPRs	No. of ULBs	Timeline
	DPR Approved & Plant Functional	02	05	Plant Functional
	Plant Prepared (Badrinath and Dwarahat)	02	02	Plant Construction has been completed.
	DPRs approved & funds have been disbursed from Central & State Share	58	82	19 Plants covering 20 ULBs is to be made functional by March' 2023.
	DPRs sent to MoHUA, Gol for approval after getting approved at GoUK. (Shiwalik Nagar, Chowkhutiya)	02	02	Subjected to approval & funds disbursement from MoHUA, Gol.
	DPRs prepared and new technology is being explored as per the climatic conditions in NPP Kedarnath.	01	01	--
	Total	65	92	
	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 (5), Haldwani – Rudarpur ISWM Cluster (8), Rishikesh (5), Srinagar(1) & Haridwar(1) i.e. 20 ULBs.			

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	▪ Total 20 ULBs have obtained Environmental Clearance. ▪ Applied For EC: Almora, Kotdwar, Ramanagar, Tehri-Chamba, Chamoli, Joshimath, Pauri, Roorkee(5), Sitarganj, Mahuakhedaganj & Dineshpur i.e. 17 ULBs and have increased from 08 ULBs to 17 ULBs in month of September'22. ▪ Authorisation Obtained: - Dehradun (5), Haridwar (1), Gauchar, Badrinath, Chamiyala, Augustmuni, Lambgaon, Ghansali, Dugadda, Chinyalisaur, Dineshpur, Naugaon, Pipalkoti, Barkot, Gairsain, Pirankaliyar, Devprayag, Kirtinagar, Rishikesh, Srinagar i.e. 24 ULBs. The authorisation obtained by ULBs is for 24 ULBs now and have increased from 6 ULBs to 24 ULBs. ▪ Applied for Authorization: Purola, Roorkee, Mahuakhedaganj, Manglaur & Champawat. Freshly applied for authorisation is 05 ULBs.
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	Sanitary Land Fill: ▪ 02 Scientific Sanitary Landfills (Haridwar & Dehradun) are in operation. ▪ Presently in Haridwar 18000 cu.m. capacity available, proposed to add 80000 cu.m. (Retendering is in process); in Dehradun total capacity is 225000 cu.m. and about 40000 cu.m. newly constructed is available at the site. Legacy Waste/ Old Dump Site: ▪ Currently 64 ULBs have reported that legacy waste has been remediated/ removed/ processed. ▪ Kotdwar, Ghansali, Munikireti, Gauchar have remediated 100 % of legacy waste. ▪ Cumulatively till date approximately 2.2 lakh Tonns of legacy waste has been remediated. For remaining 28 Legacy Waste Dumpsites current status is given bellow: ▪ Total legacy waste estimated at 28 locations are approximately 18.76 lacs MT. ▪ For 6 ULBs / 7 Sites namely, Nagar Nigam Dehradun, Haridwar, Roorkee, Kashipur, Rishikesh, Haldwani, total legacy waste quantity 15.56 lakh MT (including Kotdwar, where 100 % waste remediation has been done) costing Rs.80.88 Cr.

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	(Bio-remediation Cost @ Rs.550 /MT as per SBM 2.0 Guidelines). (Above Proposal approved by SHPC on 19.02.2021 & sent to Gol and approved by MoHUA, Gol) ▪ Remediation work initiated at 2 sites- (Kashipur & Rishikesh) sources from 2 ULBs out of above mentioned 8 dumpsites). ▪ 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. ▪ In 8 ULBs waste is being remediated by ULBs (Rudrapur, Karnprayag, Uttarkashi, Barkot, Mussoorie, Pithoragarh, Chamba & Joshimath). ▪ DPR of 2 ULBs i.e. Srinagar, Doiwala has been approved by GoUK, and DPRs of 7 ULBs Manglaur, Ramnagar, Pirankaliyar, Sitarganj, Almora, Duggada and Khatima has been prepared & at different stages of evaluation (in the process of technical approval at Distt Level). ▪ Remaining 05 ULBs have measured the waste quantity & are in process of DPR preparation. (Chamba, Gangolihat, Jhabreda, Berinag & Landhaura).
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. Legacy Waste of Kotdwar has been remediated In Srinagar legacy Waste has been shifted away from Ganga River. In Uttarkashi, ULB has enclosed the legacy waste site by constructing boundary wall of 3 m. height.
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.

Status of ULB wise Management of Solid Waste:

Treatment and Disposal facility for SWM- Land Identification and Procurement status is as follows (for Total 92 ULBs):

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- Procurement of land completed for 73 ULBs (9 Clusters serving 35 ULBs and 38 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.
- 11 ULBs individually identified forest land and in process of approval.
- 03 ULBs have identified revenue land are in process of approval, **(73+3+2+11+3=92).**

Recently for 02 ULBs (Champawat & Gairsain) revenue land has been transferred by respective DMs for construction of SWM Plant as per approved DPR (Progress form Aug 2022).

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.

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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	60 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. 374.11 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. SLMC Meeting convened on 16.09.2022 & 04.10.2022. - 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.
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

11/3/2022

	Rawali Mehdoos is under Sidcul. Out of 131 sanctioned drains 128 drains have been tapped. In case of 03 drains of Joshimath, interception work has been completed, remaining 03 drains of Joshimath will be tapped and diverted to STP by November, 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 of Bindal River is completed and trial run has started. Ramnagar: Total 06 nos. drains has been sanctioned under Namami Gange programme. All Nala have been tapped. 09 Polluted Stretches: 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." - The polluting stretch Kalyani River (Kumaon), DPR is under preparation by UKPJN & consultant has been finalised. DPR expected to be submitted. - The polluting stretch Suswa River (Dehradun) is taken up under DPR approved for I&D works of Rispana & Bindal Rivers under Namami Gange Projects. - Polytechnic drains or Lakkarghat drain is the treated effluent channels for new 26 MLD STP based on SBR technology has been commissioned at Lakkarghat. - 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. 01 Drains Ukrouli, Sitraganj. Bioremediation works has been completed.
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21/12/20

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 October, 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. 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 for the month of October, 2022:

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		▪ Out of 07-HEPs located in the main Ganga basin and having > 25 MW capacity, 6 HEPs are complying with e-flow norms, while e-flow of Srinagar HEP was below the prescribed norms. ▪ All 05-HEPs located in other than main Ganga basin and having > 25 MW capacity are complying with e-flow norms. ▪ All 20 HEPs having <25 MW capacity located in the State 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 of October, 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><tr><td>7.</td><td rowspan="6">2021-22</td><td>Assisted Natural Regeneration</td><td>Ha</td><td>124</td></tr><tr><td>8.</td><td>Plantation</td><td>Ha</td><td>55</td></tr><tr><td>9.</td><td>Water Bodies (10 KL)</td><td>Nos.</td><td>8</td></tr><tr><td>10.</td><td>Water Bodies (20 KL)</td><td>Nos.</td><td>22</td></tr><tr><td>11.</td><td>Water Bodies (40 KL)</td><td>Nos.</td><td>8</td></tr><tr><td>12.</td><td>Water Bodies (50 KL)</td><td>Nos.</td><td>10</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	7.	2021-22	Assisted Natural Regeneration	Ha	124	8.	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
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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

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 for APO 2022-23.

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

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		plantation activities on both sides of the river under Hon'ble NGT order in OA 673/2018. National CAMPA Authority has granted part approval for undertaking plantations and other related activities under APO 2022-23, the relevant achievement thereof shall be updated in further MPRs.
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.	The State Government is committed to stop illegal mining, illegal storage and illegal transportation of River Bed Material (RBM) within the State. Mining leases in the river beds are sanctioned on the recommendations of the District Level Committee comprising of officials from the Revenue, Forest, Irrigation and Mining Departments, as per the State Mining Policy and Rules only after obtaining Environment Clearance under EIA Notification 2006. It is compulsory to obtain Consent to Establish and Operate from State Pollution Control Board before commencing the excavation of RBM. Excavation of RBM is carried out as per approved mining plan and the Sustainable Sand Mining Guidelines-2016 of Ministry of Environment, Forests and Climate Change, Government of India within the demarcated area up to a depth of 03 meter or ground level whichever is less. The State Mining Policy and Rules does not permit use of machines i.e. JCB, Poclane etc. for excavation of RBM. Transportation of Mineral is carried out on E-Transit Pass. At every Entry and Exit gate of mining sites computerized weigh bridges and CCTV camera are made compulsory.

21/07/2021

Permits for operations of Brick Kilns are granted by the District Magistrates. As per the Rule-3 of Uttarakhand Minor Mineral (concession) Rules, 2001 for excavation of Brick earth up to a depth of 2 meter no environment clearance is required but beyond 2 meter prior environment clearance is required. National Green Tribunal in OA No. 469 of 2015 passed an order dated 15-10-2015 which stated that "in meanwhile, there shall be no excavation of earth for the purpose of Brick Kiln without obtaining environment clearance". The State Government vide letter no 1913/VII-I/69-writ/2013 dated 22-12-2013 directed the District Magistrates to comply the said order of the NGT.

State Government, under section 23 C of Mines and Mineral Regulation and Development Act, 1957, has formulated Uttarakhand Mineral (illegal mining, transportation and storage prevention) Rules, 2021.

In the rule 14 (2) provisions have been made to penalize the vehicles involved in illegal transportation. In case of illegal transportation of mineral the following penalties shall be imposed:-

S. N.	Type of Vehicle	Penalty (in Rs.)	Percentage of Royalty to be imposed
1	04 wheeler Utility and Small vehicles	5,000	Market value of the quantity of illegal mineral loaded in the vehicle
2	06 Wheeler Utility	7,500	Market value of the quantity of illegal mineral loaded in the vehicle
3	02 wheeler Tractor Trolley	10,000	Market value of the quantity of illegal mineral loaded in the vehicle
4	04 wheeler Tractor Trolley	15,000	Market value of the quantity of illegal mineral loaded in the vehicle
5	06 wheeler Truck	30,000	Market value of the quantity of illegal mineral

			loaded in the vehicle
6	More than 06 wheeler Truck, Dumper, Haiwa etc.	50,000	Market value of the quantity of illegal mineral loaded in the vehicle
7	J.C.B	2,00,000	Illegal use without permission
8	Pokland	4,00,000	Illegal use without permission

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 illegal River Bed Material, a penalty equal to two times of royalty on the quantity of 01 ton to 25,000 ton, three times of royalty on the quantity of 25,000-50,000 ton, four time of royalty on the quantity of 50,000-1.00 lakh tons and five times of royalty on the quantity of more than 01 lakh tons, can be imposed.

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. District Mines Officer frequently makes surprised visit to the mining sites and takes actions against the mine owners as per the Rules, if they are found violating the conditions of the mining leases.

In the Month of October 2022 a 91 Cases of illegal mining/illegal transportation/illegal storage and a total 0.87 crore has been recovered from them.

The enforcement work done to prevent illegal mining/illegal transportation/illegal storage in the last seven financial years is as follows:-

S. N.	Financial Year	Illegal mining/ storage/ transportation cases	Penalty Recovered (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 (Up to Oct. 2022)	1234	11.003
		Total:		16,934	104.953
		Thus the State Government is committed to stop illegal mining, illegal storage and illegal transportation of mineral in the State.			
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.2.46 Crore from various defaulters / law violators as an environment compensation.			

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Annexure-1

S.N.	DistrictName	ULBName	Generation (MT)	Processed (MT)
			October	
1	ALMORA	DWARHAT	1.452	1.452
2	ALMORA	ALMORA	7.419	7.511
3	ALMORA	RANIKHET-CHILIYANAULA	3.871	3.871
4	ALMORA	BHIKYASAIN	1.484	1.484
5	ALMORA	CHAWKHUTIYA	0.484	0.000
6	BAGESHWAR	BAGESHWAR	7.500	2.590
7	BAGESHWAR	KAPKOT	2.000	1.968
8	CHAMOLI GOPESHWAR	BADRINATH	0.189	0.189
9	CHAMOLI GOPESHWAR	JOSHIMATH	3.097	2.129
10	CHAMOLI GOPESHWAR	CHAMOLI-GOPESHWAR	3.548	3.548
11	CHAMOLI GOPESHWAR	NANDPRAYAG	0.500	0.300
12	CHAMOLI GOPESHWAR	GAUCHAR	5.106	1.813
13	CHAMOLI GOPESHWAR	KARNAPRAYAG	2.968	0.806
14	CHAMOLI GOPESHWAR	GAIRSAIN	1.161	1.355
15	CHAMOLI GOPESHWAR	POKHARI	2.000	2.000
16	CHAMOLI GOPESHWAR	THARALI	0.194	0.000
17	CHAMOLI GOPESHWAR	PIPALKOTI	0.484	0.361
18	CHAMPAWAT	CHAMPAWAT	4.516	0.484
19	CHAMPAWAT	LOHAGHAT	2.581	0.645
20	CHAMPAWAT	TANAKPUR	2.452	2.226
21	CHAMPAWAT	BANBASA	2.000	2.000
22	DEHRADUN	VIKASNAGAR	7.742	7.742
23	DEHRADUN	HERBERTPUR	4.500	2.889
24	DEHRADUN	MUSSOORIE	19.059	19.059
25	DEHRADUN	DEHRADUN	440.654	440.654
26	DEHRADUN	DOIWALA	30.000	31.452
27	DEHRADUN	RISHIKESH	87.097	25.000
28	DEHRADUN	LAQUI (CENTRAL HOPETOW	5.806	0.000
29	HARDWAR	ROORKEE (NN)	97.097	97.107
30	HARDWAR	JHABRERA	10.000	0.197
31	HARDWAR	MANGLAUR	28.000	0.000
32	HARDWAR	LANDHAURA	7.000	0.000
33	HARDWAR	HARDWAR	126.032	126.032
34	HARDWAR	LAKSAR	6.484	6.484
35	HARDWAR	SHIVALIK NAGAR	9.452	9.290
36	HARDWAR	BHAGWANPUR	8.710	0.000
37	HARDWAR	PIRAN KALIYAR	7.000	0.000
38	NAINITAL	NAINITAL	14.516	14.516
39	NAINITAL	BHOWALI	2.000	0.032
40	NAINITAL	BHIMTAL	2.250	2.248
41	NAINITAL	HALDWANI	125.806	0.300
42	NAINITAL	RAMNAGAR_U	14.142	4.829

43	NAINITAL	KALADHUNGI	3.458	0.027
44	NAINITAL	LALKUAN	3.200	1.200
45	PAURI GARHWAL	SRINAGAR	10.000	9.677
46	PAURI GARHWAL	PAURI	7.742	10.968
47	PAURI GARHWAL	DOGADDA	0.968	1.086
48	PAURI GARHWAL	KOTDWARA	40.000	40.000
49	PAURI GARHWAL	SWARGASHRAM	2.097	0.000
50	PAURI GARHWAL	SATPULI	1.330	1.298
51	PITHORAGARH	DHARCHULA	3.742	0.903
52	PITHORAGARH	DIDIHAT	3.065	0.000
53	PITHORAGARH	PITHORAGARH	27.097	12.581
54	PITHORAGARH	GANGOLIHAT	0.306	0.000
55	PITHORAGARH	BERINAG	1.452	0.000
56	RUDRAPRAYAG	KEDARNATH	0.065	0.000
57	RUDRAPRAYAG	RUDRAPRAYAG	3.200	1.361
58	RUDRAPRAYAG	UKHIMATH	0.077	0.037
59	RUDRAPRAYAG	AUGUSTMUNI	1.800	1.800
60	RUDRAPRAYAG	TILWARA	0.529	0.206
61	TEHRI	KIRTINAGAR	0.581	0.548
62	TEHRI	DEVAPRAYAG	3.774	1.000
63	TEHRI	TEHRI	8.141	8.141
64	TEHRI	CHAMBA_U	3.806	3.800
65	TEHRI	NARENDRANAGAR	1.200	1.200
66	TEHRI	MUNI-KI-RETI	14.129	14.129
67	TEHRI	GHANSALI	1.903	2.060
68	TEHRI	LAMB GAON	0.806	0.000
69	TEHRI	GAJA	0.979	0.979
70	TEHRI	CHAMIYALA	2.000	0.000
71	UDHAMSINGH NAGAR	KASHIPUR	62.903	62.903
72	UDHAMSINGH NAGAR	MAHUA KHERAGANJ	3.258	3.258
73	UDHAMSINGH NAGAR	MAHUADABRA	4.645	0.968
74	UDHAMSINGH NAGAR	JASPUR	24.194	0.000
75	UDHAMSINGH NAGAR	SULTANPUR_U	4.000	4.839
76	UDHAMSINGH NAGAR	BAZPUR	10.161	2.584
77	UDHAMSINGH NAGAR	KELA KHERA	4.349	0.324
78	UDHAMSINGH NAGAR	RUDRAPUR	76.774	1.613
79	UDHAMSINGH NAGAR	KICHHA	19.806	5.258
80	UDHAMSINGH NAGAR	GADARPUR	8.000	9.041
81	UDHAMSINGH NAGAR	DINESHPUR	4.100	4.100
82	UDHAMSINGH NAGAR	SHAKTIGARH	1.161	0.000
83	UDHAMSINGH NAGAR	SITARGANJ	19.000	3.871
84	UDHAMSINGH NAGAR	KHATIMA	10.516	7.968
85	UDHAMSINGH NAGAR	NANAKAMTTA	4.032	0.023
86	UDHAMSINGH NAGAR	GULARBHOJ	2.774	2.775
87	UTTARKASHI	BARKOT (NPP)	3.194	2.000
88	UTTARKASHI	BARAHAT UTTARKASHI	10.000	10.000
89	UTTARKASHI	GANGOTRIDHAM	0.081	0.081

90	UTTARKASHI	PUROLA	2.258	2.258
91	UTTARKASHI	CHIMYALISUR	2.500	0.645
92	UTTARKASHI	NAUGAON	2.000	0.000
			1535.507	1062.075

Surface Water Quality of 09 polluted river stretches for the month of October, 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)	TSS (mg/l)	Total Coliforms (MPN /100ml)	Faecal Coliform (MPN /100 ml)
1	Dhella	15.10.2022	US	Dhella Bridge, Kashipur, Bheljiudi	29°13'12" N 78°56'42" E	7.9	7.6	2.8	15	253	166	36	430	240
		15.10.2022	DS	Gehruwala Village Pratappur	29°08'30" N 78°05'20" E	7.5	1.2	18	160	348	232	78	920	430
2	Bhella	15.10.2022	US	Bahella Bridge, Kashipur	29°16'43" N 79°01'19" E	7.5	6.4	3	13	215	140	38	430	240
		15.10.2022	DS	Bahella River rajpura tanda	29°07'45" N 78°59'03" E	7.5	2	52	180	293	193	72	540	220
3	Kichha	14.10.2022	US	Main Road Kichha	28°57'43" N 79°32'17" E	7.9	5.2	4	13	184	119	48	920	430
		14.10.2022	DS	Kichha Bridge	29°52'59" N 79°30'56" E	7.8	4.4	13	68	221	145	50	920	430
4	Suswa	01.10.2022	US	Mothrawala	30°13'59" N 78°01'48" E	6.90	4.6	18	72	319	210		>1600	>1600
		01.10.2022	DS	Barafutta	30°8'19" N 78°7'49" E	7.08	7.2	1.4	5.6	332	219		84	48
5	Kalyani	14.10.2022	US	Pantnagar Ind. Area Rudrapur	29°01'44" N 79°24'28" E	7.6	5.6	7.2	22	340	224	30	350	220
		14.10.2022	DS	Rampura ground Rudrapur	28°57'52" N 79°24'08" E	7.8	1.2	40	220	415	274	120	920	540
6	Kosi	15.10.2022	US	Bajpur bridge Sultanpur patti	28°09'32" N 79°02'19" E	7.8	6.8	3.2	14	205	136	24	350	280
		15.10.2022	DS	Bypass bridge pattikalan	29°04'31" N 79°02'24" E	7.9	6.1	5.6	20	211	139	38	920	540
7	Pilakhar	14.10.2022	US	Bajpur	29°10'21" N 79°08'44" E	7.6	3.8	4.8	17	289	191	32	430	240
		14.10.2022	DS	Rampur (U.P.)	29°12'12" N 78°58'42" E	7.6	2.8	11	40	442	292	48	350	280
8	Nandhour	14.10.2022	US	Sitarganj	29°04'36" N 79°41'36" E	7.8	7.2	3.2	12	176	116	20	280	94
		14.10.2022	DS	Nandhor Bridge, Sitarganj	28°55'149" N 79°44'38" E	7.9	6.4	5	18	198	129	42	430	210
9	Ganga	01.10.2022	US	Bindughat Dudhiyaban	29.970608°N 78.183854°E	8.10	8.4	1.4	7	281	180		79	46
		03.10.2022	DS	Sultanpur	29.699043°N 78.166559°E	8.20	8.4	1.8	8	260	167		84	47

ANNEXURE- 3(A)

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
(October 2022)

S.No.	Name of Hydro Power Project	Capacity (MW)	District	Developer	Season	Months	Average E-flow Mandated (cumecs)	Compliance of e-flow notification			Remark
								Average River Discharge (Cumecs)	E-Flow Released (Cumecs)	% of E-Flow released	
1	Vishnuprayag HEP	400	Chamoli	J.P venture	High Flow	Oct-22	9.26	27.43	9.27	33.80%	
2	Srinagar HEP	330	Pauri Garhwal	GVK	High Flow	Oct-22	181.60	421.68	24.61	5.84%	
3	Singoli Bhatwari HEP	99	Rudrapur	L&T	High Flow	Oct-22	23.96	69.05	24.59	35.61%	
4	(Tehri Dam + Koteswar Dam)	(1000 + 400)	Tehri	THDCIL	High Flow	Oct-22	72.73	191.26	191.48	100.12%	
5	Tiloth Power Station (Maneri Dam)	3 x 30 = 90	Uttarkashi	UJVNL	High Flow	Oct-22	31.95	89.24	32.91	36.88%	
6	Dharasu Power Station (Joshivara Barrage)	4 x 76 = 304	Uttarkashi	UJVNL	High Flow	Oct-22	54.36	171.86	53.80	31.30%	
7	Chilla Power Station	4 x 36 = 144	Pauri Garhwal	UJVNL	High Flow	Oct-22	204.69	765.58	332.19	43.39%	

* 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

ANNEXURE - 3(B)

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 (October 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	Oct-22	Minimum 15% of Average Lean Season flow	4.00	11.19	279.75%	
2	Tanakpur	120	Champawat	NHPC	Oct-22		164.00	590.68	360.17%	
3	Dakpathar Barrage (Dhalipur + Dhakrani)	(51 + 33.75)	Dehradun	UJVNL	Oct-22		67.71	75.77	111.90%	
4	Kulhal	30	Dehradun	UJVNL	Oct-22		13.03	25.07	192.40%	
5	Ichadi Dam (Chibro + Khodri)	(240 + 120)	Dehradun	UJVNL	Oct-22		72.46	11.57	15.97%	

* 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, Govt 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
(October 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
1	Loharkhet	4.8	Bageshwar	Parvatiya Power	Oct-22	Minimum 15% of Average Lean Season flow	1.47	1.48	100.68%
2	Gangam	8	Uttarkashi	Regency Gangam Energy	Oct-22		5.10	2.16	42.35%
3	Badyar	4.9	Uttarkashi	Regency Yamuna Energy	Oct-22		1.30	0.75	57.69%
4	Sarju-II	15	Bageshwar	Uttar Bharat Hydro	Oct-22		-	-	-
5	Sarju-III	10.5	Bageshwar	Uttar Bharat Hydro	Oct-22		-	-	-
6	Motighat	5	Prithwaragh	Himalya Hydro (P) Ltd	Oct-22		3.04	8.52	280.26%
7	Tanga	5	Prithwaragh	Himalya Hydro (P) Ltd	Oct-22		3.04	8.52	280.26%
8	Galogi SHP	3.5 MW	Dehradun	UJVNL	Oct-22		0.66	0.13	19.70%
9	Ram Prasad Nautiyal, Duna SHP	1.5 MW	Pauni Garhwal	UJVNL	Oct-22		2.97	0.88	29.63%
10	Rajwakti	3.6	Chamoli	Him Urja	Oct-22		63.58	54.66	85.97%
11	Vanala	15	Chamoli	Him Urja	Oct-22		44.26	33.39	75.44%
12	Debal	5	Chamoli	Chamoli Hydro	Oct-22		2.50	7.87	314.80%
13	Agunda Thari	3	Tehri	Gunsola Hydro	Oct-22		7.35	1.08	14.69%
14	Bhulangana	22.5	Tehri	Swasti Power	Oct-22		42.81	12.36	28.87%
15	Bhulangana-III	24	Tehri	Bhulangana Hydro Power	Oct-22		14.54	4.95	34.04%
16	Brahmaganga	7.2	Chamoli	Brahmaganga Hydro Power	Oct-22		2.70	2.41	89.26%
17	Pilangad SHP	2.25	Uttarkashi	UJVNL	Oct-22		4.86	2.92	60.08%
18	Urgam SHP	3	Chamoli	UJVNL	Oct-22		4.53	3.16	69.76%
19	Kaliganga-I SHP	4	Rudrapur	UJVNL	Oct-22		4.22	1.27	30.09%
20	Kaliganga-II SHP	4.5	Rudrapur	UJVNL	Oct-22		10.31	2.97	28.81%

Developer inform that due to high inflow in river, discharge could not be measured (E-flow maintained as per norms regularly)

* 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, Govt. 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.