HEAD OFFICE
Uttarakhand Pollution Control Board
"Gaura Devi Paryavaran Bhawan"
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Ref : UKPCB/HO/Gen-476(Vol-III)/2023/1959, Dehradun, March 18, 2023

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.

O/o ED (T), NMCG
Dy. No. 379
Date 27/3/23

Sub.: Monthly Progress Report of November, 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 November, 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 & eepkm.cpcb@nic.in.

It is also to mention that in the MPR forwarded for the month of October, please read serial no.-48 in the table "Details of existing STP in the State during the month of October-2022" as complying in place of non-complying in the MoEF&CC compliance status column.

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), NamamiGange, 117, Indira Nagar, VasantVihar, Dehradun- 248006 (Uttarakhand) for kind information.

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.

NOVEMBER, 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	62 Nos.
No. of Non-Operational STPs	05 Nos. (i) 1.25 MLD STP at Pokhri Band, Gopeshwar. (At the time of inspection there was no sewage reaching the STP) (ii) 0.075 MLD STP near Anoop Negi School, Rudraprayag. (iii) 10 MLD capacity Rusi Pond at Nainital. (iv) 0.05 MLD STP near Naya Pull, Karanprayag (At the time of inspection there was no sewage reaching the STP) (v) 1 MLD STP Gangotri, Uttarkashi (Due to Seasonal Closure)
No. of Complying STP's (Out of 62 Operational STPs monitored in the month of November, 2022)	▪ As per standards notified by MoEF& CC: **55** ▪ As per standards prescribed by the Hon'ble NGT order dated 30.04.2019: **36.**

No. of Non-complying STP's (Out of 62 Operational STPs monitored in the month of November, 2022)	▪ As per standards notified by MoEF&CC: 07 ▪ As per standards prescribed by the Hon'ble NGT order dated 30.04.2019: 26

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 November, 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	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
7.	Gopeshwar (Vivekanand Colony) Distt.-Chamoli	1.19	0.50	Operational	Complying	Complying
8.	Gopeshwar (DeenDayalUpadhay	1.12	0.075	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
	ay Park), Baiterni, Distt.-Chamoli					
9.	Gopeshwar (Pokhari Band) Distt.-Chamoli	1.25	0.50	At the time of inspection there was no sewage reaching the STP		
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	At the time of inspection there was no sewage reaching the STP		
17.	Rudraprayag (Near AnoopNegi 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 &Maszid), Distt-Rudraprayag	0.10	0.090	Operational	Complying	Complying
21.	Rudraprayag (Near Steel Bridge), Distt-Rudraprayag	0.125	0.125	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
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	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	Non-Complying	Non-Complying
28.	Tapovan, Rishikesh Distt.-Tehri	3.50	1.10	Operational	Non-Complying	Non-Complying
29.	Shanti bazar, Devprayag, Distt.-Tehri	0.075	0.04	Operational	Non-Complying	Non-Complying
30.	Sangambazar, Devprayag Distt.-Tehri	0.15	0.15	Operational	Complying	Non-Complying
31.	Baah Bazar, Devprayag Distt.-Tehri	1.40	0.04	Operational	Non-Complying	Non-Complying
32.	Gyansu, Uttarkashi Distt.-Uttarkashi	2.00	1.783	Operational	Non-Complying	Non-Complying
33.	Gangotri, Uttarkashi Distt.-Uttarkashi	1.00	0.20	Non – Operational	Monitoring could not be done due to seasonal closure	
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	Non Complying
36.	Taulia, Srikot Distt.- Pauri Garhwal	0.05	0.008	Operational	Non Complying	Non 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

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
39.	Lakkarghat, Rishikesh Distt.-Dehradun	26.00	12.30	Operational	Complying	Non 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	Complying
47.	Motharawala-II, Dehradun Distt.-Dehradun	20.00	11.00	Operational	Complying	Non-Complying
48.	Kargi, Dehradun Distt.-Dehradun	68.00	13.00	Operational	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	Complying
51.	Indira Nagar, Dehradun Distt.-Dehradun	5.00	5.00	Operational	Complying	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	Non-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

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
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	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 13th Finance Programme.	December, 2022
2.	Marwari, Joshimath Distt. -Chamoli	2.70	99%	Trial run started	December, 2022
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

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

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
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. And are 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). Operational and Complying
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 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 (10 ULBs are newly added)
Current Municipal Solid Waste Generation	1475.40 MTPD
Current Municipal Solid Waste Processed	1087.83 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 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**	▪ 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 38 Material Recovery Facility is functional having total capacity of 230 MTPD. ▪ ***In NPP Muni-ki-Reti, a 5MTPD capacity Plastic to Plank system has been installed.*** ▪ ***Plastic Compactors- 60 Nos. (Operational).*** ***The total capacity of Plastic Compactor in ULBs is 270 Tones per day.*** ▪ ***Revenue generated from the plastic compactors is Rs. 388.48 Lacs upto November, 2022 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) –435.44 TPD Daily Waste Processed (Average)- 435.44 TPD (100%). Haridwar: Plant Installed Capacity- 150 TPD (8hr running capacity) Daily Solid Waste Collected – 98.17 TPD Daily Waste Processed- 98.17 TPD (100%)
Nos. and capacity of C&D waste processing plants in TDP (existing, proposed and under construction)	▪ ***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.*** ▪ 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 service, no. of wards practicing segregation at source.	Total number of Wards-1152 Door to door Collecton-1152 Source Segregation-1052
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	06	Plant Functional
Plant constructed (Badrinath and Dwarahat)	02	02	Plant Construction has been completed.
DPRs approved & funds have been disbursed to ULBs	56	75	19 Plants covering 20 ULBs is to be made functional by April' 2023.
DPRs sent to MoHUA, GoI for approval after getting approved at GoUK. (Shivalik Nagar, Chaukhutiya)	02	02	Subjected to approval & funds disbursement from MoHUA, GoI.
DPR, Approved by GoI, GO pending at GoUK	02	06	GO will be issued after EFC at GoUK level
DPRs prepared and new technology is being explored as per the climatic conditions in NP 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.
- **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. (Bio-remediation Cost @ Rs.550 /MT as per SBM 2.0 Guidelines). (Above Proposal approved by SHPC on 19.02.2021 & sent to GoI and approved by MoHUA, GoI) ▪ 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, Kamprayag, 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):

- 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 permitted for treatment of 101.67 MT per month waste. 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	21586.24 Tonnes (Year 2021-22)
No. of Industries generation Hazardous waste	4469 Nos.
Treatment Capacity of all TSDFs	Incineration-12000 MT/Year Land filling-8000 MT/Year
Quantity of Hazardous waste reached the TSDFs (Year 2021-22) Treated (Year 2021-22)	9151.55 MT (Landfill – 3269.383 MT & Incineration – 5882.17 MT) Landfillable: 3269.383 MT Incinerable: 5862.496 MT
Details of on-going or proposed TSDF	Capacity utilization of existing facility is proposed.

7. PLASTIC WASTE MANAGEMENT:

Total Plastic Waste generation	53852 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. 388.48 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. ▪ SUP grievance app created by CPCB.

OTHERS:

8.	Details of Alternate Treatment Technology being adopted by the State/UT	The treatment technologies i.e., SBR, MBBER, 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 Rawali Mehdood 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:** 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. 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, 20.09.2022 and 10.01.2023
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 November, 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 and also appraised in RRC meeting. ▪ 01 No. Ganga River stretch (Sultanpur Patti Dist-Haridwar) Flood plain zone has been notified. ▪ Rest of 03 rivers Kosi, Suswa & Gola (Kichcha) flood plain zoning are under progress, which will likely to be completed by March, 2023.
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 November, 2022: ▪ 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, E-flow for 2.25 MW SHP in Uttarkashi is available till 12.11.2022 as plant is shutdown rest of the month. ▪ Details of E-flow of November, 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:**

S. No.	Year	Plantations (ha)
1.	2020-21	5181.64
2.	2021-22	3781.46
3.	2022-23	1398.59
	Total	10361.69

* as per current MIS progress

2. **Activities implemented under River Rejuvenation scheme of CAMPA:**

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.		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

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, were proposed in APO 2022-23.

National CAMPA Authority has approved the proposed amount under OA 200/2014 and OA 325/2015. The relevant achievements under the same 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. A part from this micro irrigation practices such as sprinkler and drip irrigation is being adopted by the irrigation department.
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.

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 November 2022, a 138 Cases of illegal mining/illegal transportation/illegal storage and a total 0.496 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 November. 2022)	1372	11.499
Total:		17,072	105.449

		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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SWM_Data_November 2022

S.N.	DistrictName	ULBName	Generation (MT)	Processed (MT)
			November	
1	ALMORA	DWARHAT	1.50	1.50
2	ALMORA	ALMORA	7.33	6.23
3	ALMORA	RANIKHET-CHILIYANAULA	4.00	4.00
4	ALMORA	BHIKYASAIN	2.00	2.00
5	ALMORA	CHAWKHUTIYA	1.00	0.00
6	BAGESHWAR	BAGESHWAR	7.50	2.22
7	BAGESHWAR	KAPKOT	2.00	2.00
8	CHAMOLI	BADRINATH	0.17	0.17
9	CHAMOLI	JOSHIMATH	2.20	1.56
10	CHAMOLI	CHAMOLI-GOPESHWAR	3.67	3.67
11	CHAMOLI	NANDPRAYAG	0.50	0.30
12	CHAMOLI	GAUCHAR	5.31	1.87
13	CHAMOLI	KARNAPRAYAG	1.50	0.83
14	CHAMOLI	GAIRSAIN	1.20	1.20
15	CHAMOLI	POKHARI	2.00	2.00
16	CHAMOLI	THARALI	0.80	0.27
17	CHAMOLI	PIPALKOTI	0.50	0.24
18	CHAMPAWAT	CHAMPAWAT	4.67	0.67
19	CHAMPAWAT	LOHAGHAT	2.67	0.00
20	CHAMPAWAT	TANAKPUR	3.10	2.33
21	CHAMPAWAT	BANBASA	2.00	1.83
22	DEHRADUN	VIKASNAGAR	8.21	8.22
23	DEHRADUN	HERBERTPUR	4.50	3.78
24	DEHRADUN	MUSSOORIE	14.18	14.23
25	DEHRADUN	DEHRADUN	435.44	435.14
26	DEHRADUN	DOIWALA	31.22	31.22
27	DEHRADUN	RISHIKESH	85.95	81.65
28	DEHRADUN	SELAQUI (CENTRAL HOPETOWN	4.67	4.67
29	HARDWAR	ROORKEE (NN)	100.33	85.33
30	HARDWAR	JHABRERA	7.67	2.54
31	HARDWAR	MANGLAUR	28.67	0.00
32	HARDWAR	LANDHAURA	7.00	0.70
33	HARDWAR	HARDWAR	98.17	98.17
34	HARDWAR	LAKSAR	6.50	6.50
35	HARDWAR	SHIVALIK NAGAR	9.87	9.80
36	HARDWAR	BHAGWANPUR	5.90	5.90
37	HARDWAR	PIRAN KALIYAR	6.20	6.20
38	NAINITAL	NAINITAL	14.03	14.03
39	NAINITAL	BHOWALI	2.00	2.00
40	NAINITAL	BHIMTAL	2.25	2.25
41	NAINITAL	HALDWANI	126.00	0.00
42	NAINITAL	RAMNAGAR_U	13.39	6.74
43	NAINITAL	KALADHUNGI	3.45	2.38
44	NAINITAL	LALKUAN	2.07	0.56
45	PAURI GARHWAL	SRINAGAR	10.00	9.67
46	PAURI GARHWAL	PAURI	8.00	8.00
47	PAURI GARHWAL	DOGADDA	1.00	0.50
48	PAURI GARHWAL	KOTDWARA	40.00	40.00
49	PAURI GARHWAL	SWARGASHRAM	2.17	2.30
50	PAURI GARHWAL	SATPULI	1.33	1.31
51	PITHORAGARH	DHARCHULA	3.90	0.00
52	PITHORAGARH	DIDIHAT	3.20	0.00

S.N.	DistrictName	ULBName	Generation (MT)	Processed (MT)
			November	
53	PITHORAGARH	PITHORAGARH	28.00	13.00
54	PITHORAGARH	GANGOLIHAT	0.37	0.00
55	PITHORAGARH	BERINAG	1.50	0.00
56	RUDRAPRAYAG	KEDARNATH	0.50	0.50
57	RUDRAPRAYAG	RUDRAPRAYAG	3.20	1.50
58	RUDRAPRAYAG	UKHIMATH	0.17	0.25
59	RUDRAPRAYAG	AUGUSTMUNI	1.40	1.40
60	RUDRAPRAYAG	TILWARA	0.54	0.92
61	TEHRI	KIRTINAGAR	0.60	0.57
62	TEHRI	DEVAPRAYAG	3.10	0.83
63	TEHRI	TEHRI	9.40	9.40
64	TEHRI	CHAMBA_U	3.40	3.37
65	TEHRI	NARENDRANAGAR	1.20	1.20
66	TEHRI	MUNI-KI-RETI	14.75	14.75
67	TEHRI	GHANSALI	1.97	1.97
68	TEHRI	LAMB GAON	1.33	1.10
69	TEHRI	GAJA	1.00	0.36
70	TEHRI	CHAMIYALA	2.00	1.00
71	US NAGAR	KASHIPUR	51.67	44.70
72	US NAGAR	MAHUA KHERAGANJ	3.00	3.00
73	US NAGAR	MAHUADABRA	4.80	4.82
74	US NAGAR	JASPUR	25.00	4.65
75	US NAGAR	SULTANPUR_U	3.98	2.88
76	US NAGAR	BAZPUR	10.50	4.67
77	US NAGAR	KELA KHERA	4.49	0.34
78	US NAGAR	RUDRAPUR	64.57	0.73
79	US NAGAR	KICHHA	19.90	10.43
80	US NAGAR	GADARPUR	8.00	7.97
81	US NAGAR	DINESHPUR	4.30	4.30
82	US NAGAR	SHAKTIGARH	1.20	0.53
83	US NAGAR	SITARGANJ	19.00	4.50
84	US NAGAR	KHATIMA	10.87	2.83
85	US NAGAR	NANAKAMTTA	4.03	0.17
86	US NAGAR	GULARBHOJ	2.80	4.47
87	UTTARKASHI	BARKOT (NPP)	3.00	0.53
88	UTTARKASHI	BARAHAT UTTARKASHI	10.00	10.00
89	UTTARKASHI	GANGOTRIDHAM	0.00	0.00
90	UTTARKASHI	PUROLA	2.50	2.33
91	UTTARKASHI	CHIMYALISAUR	2.50	2.17
92	UTTARKASHI	NAUGAON	2.00	1.00
			1475.40	1087.83

ANNEXURE-1

The Surface Water Quality of 09 polluted river stretches for the month of November, 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 (µS/cm)	TDS (mg/l)	TSS (mg/l)	Total Coliforms (MPN /100ml)	Faecal Coliform (MPN /100 ml)
1	Dhella	18.11.2022	US	Dhella Bridge, Kashipur, Bhelijudi	29°13'12" N 78°56'42" E	8.1	5.5	3.5	14	264	174	30	540	350
		18.11.2022	DS	Gehruwala Village Pratappur	29°08'30" N 78°05'20" E	7.2	1.7	25	160	560	370	58	≥1600	920
2	Bhella	18.11.2022	US	Bahella Bridge, Kashipur	29°16'43" N 79°01'19" E	7.7	5.6	3.4	13	197	131	32	350	280
		18.11.2022	DS	Bahella River rajpura tanda	29°07'45" N 78°59'03" E	7.3	2.1	26	160	307	201	56	920	430
3	Kichha	17.11.2022	US	Main Road Kichha	28°57'43" N 79°32'17" E	7.9	5.8	3.2	15	338	223	30	920	540
		17.11.2022	DS	Kichha Bridge	29°52'59" N 79°30'56" E	7.8	5.3	6.2	30	421	279	50	540	350
4	Suswa	09.11.2022	US	Mothrawala	30°13'59"N 78°01'48"E	6.84	4.8	16	68	419	278	-	9200	4700
		09.11.2022	DS	Barafutta	30°8'19.9"N 78°7'49.8"E	7.10	7.4	1.4	5.2	280	185	-	94	49
5	Kalyani	17.11.2022	US	Pantnagar Ind. Area Rudrapur	29°01'44" N 79°24'28" E	8	3.8	6.2	16	370	245	26	280	220
		17.11.2022	DS	Rampura ground Rudrapur	28°57'52" N 79°24'08" E	7.5	1.1	35	220	461	306	110	≥1600	540
6	Kosi	18.11.2022	US	Bajpur bridge Sultanpur patti	28°09'32" N 79°02'19" E	7.9	6.7	3	14	318	210	16	920	430
		18.11.2022	DS	Bypass bridge pattikalan	29°04'31" N 79°02'24" E	7.9	6.5	3.7	16	336	220	26	430	240
7	Pilakhar	17.11.2022	US	Bajpur	29°10'21" N 79°08'44" E	7.8	4.4	3.7	19	325	216	22	350	240
		17.11.2022	DS	Rampur (U.P.)	29°12'12" N 78°58'42"E	7.7	2.8	8	36	559	371	42	350	220
8	Nandhour	17.11.2022	US	Sitarganj	29°04'36" N 79°41'36" E	8.4	6.8	2.8	11	203	136	18	350	84
		17.11.2022	DS	Nandhor Bridge, Sitarganj	28°55'149" N 79°44'38" E	7.5	6.2	4	22	298	197	32	540	220
9	Ganga	03.11.2022	US	Bindughat Dudhiyaban	29.970608°N-78.183854°E	7.80	8.2	2	7	268	171	-	84	26
		02.11.2022	DS	Sultanpur	29.699043°N -78.166559°E	7.80	8.7	1.8	6	327	209	-	63	22

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 (November 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	Dry	Nov-22	3.83	16.96	3.83	22.58%	
2	Srinagar HEP	330	Pauri Garhwal	GVK	Dry	Nov-22	60.09	211.47	13.07	6.18%	
3	Singoli Bhatwari HEP	99	Rudraprayag	L&T	Dry	Nov-22	7.80	30.80	8.70	28.25%	
4	(Tehri Dam + Koteshwar Dam)	(1000 + 400)	Tehri	THDCIL	Dry	Nov-22	20.61	144.21	145.16	100.66%	
5	Tiloth Power Station (Maneri Dam)	3 x 30 = 90	Uttarkashi	UJVNL	Dry	Nov-22	12.16	51.19	12.38	24.18%	
6	Dharasu Power Station (Joshiyara Barrage)	4 x 76 = 304	Uttarkashi	UJVNL	Dry	Nov-22	13.69	59.97	14.87	24.80%	
7	Chilla Power Station	4 x 36 = 144	Pauri Garhwal	UJVNL	Dry	Nov-22	85.42	349.64	99.56	28.48%	

* 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 (November 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	Dhauliganga HEP	280	Pithoragarh	NHPC	Nov-22	Minimum 15% of Average Lean Season flow	4.00	4.35	108.75%	
2	Tanakpur	120	Champawat	NHPC	Nov-22		164.00	25.00	15.24%	
3	Dakpathar Barrage (Dhalipur + Dhakrani)	(51 + 33.75)	Dehradun	UJVNL	Nov-22		67.71	12.93	19.10%	
4	Kulhal	30	Dehradun	UJVNL	Nov-22		13.03	2.44	18.73%	
5	Ichadi Dam (Chibro + Khodri)	(240 + 120)	Dehradun	UJVNL	Nov-22		72.46	11.33	15.64%	

* 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, GoI 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.

Annexure - 3(C)

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 (November 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	Nov-22	Minimum 15% of Average Lean Season flow	1.47	0.23	15.65%	
2	Gangani	8	Uttarkashi	Regency Gangani Energy	Nov-22		5.10	1.84	36.08%	
3	Badyar	4.9	Uttarkashi	Regency Yamuna Energy	Nov-22		1.30	0.56	43.08%	
4	Sarju-II	15	Bageshwar	Uttar Bharat Hydro	Nov-22		2.01	0.31	15.42%	
5	Sarju-III	10.5	Bageshwar	Uttar Bharat Hydro	Nov-22		4.06	0.63	15.52%	
6	Motighat	5	Pithoragarh	Himalya Hydro (P) Ltd.	Nov-22		3.04	3.07	100.99%	
7	Tanga	5	Pithoragarh	Himalya Hydro (P) Ltd.	Nov-22		3.04	3.07	100.99%	
8	Galogi SHP	3.5 MW	Dehradun	UJVNL	Nov-22		0.55	0.10	18.18%	
9	Ram Prasad Nautiyal, Dunao SHP	1.5 MW	Pauri Garhwal	UJVNL	Nov-22		2.55	0.57	22.35%	
10	Rajwakti	3.6	Chamoli	Him Urja	Nov-22		35.82	24.12	67.34%	
11	Vanala	15	Chamoli	Him Urja	Nov-22		28.24	21.81	77.23%	
12	Debal	5	Chamoli	Chamoli Hydro	Nov-22		2.50	2.02	80.80%	
13	Agunda Thati	3	Tehri	Gunsola Hydro	Nov-22		4.54	0.69	15.20%	
14	Bhilangana	22.5	Tehri	Swasti Power	Nov-22		17.12	3.53	20.62%	
15	Bhilangana- III	24	Tehri	Bhilangna Hydro Power	Nov-22		9.30	2.16	23.23%	
16	Birahiganga	7.2	Chamoli	Birahiganga Hydro Power	Nov-22		2.70	0.43	15.93%	
17	Pilangad SHP	2.25	Uttarkashi	UJVNL	Nov-22		3.58	1.43	39.94%	E-flow data is available till 12.11.2022 as plant is shutdown rest of the month
18	Urgam SHP	3	Chamoli	UJVNL	Nov-22		2.79	0.94	33.69%	
19	Kaliganga -I SHP	4	Rudraprayag	UJVNL	Nov-22		2.94	0.65	22.11%	
19	Kaliganga -II SHP	4.5	Rudraprayag	UJVNL	Nov-22		7.85	1.85	23.57%	

* 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, GoI 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.