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/2021/5626-1095 Dehradun, December 27, 2021

E-mail/Speed Post

To,

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

Sub: Monthly Progress Report (November, 2021) in the matter of O.A. No. 673/2018, Rejuvenation of River as per Hon'ble National Green Tribunal order 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, 2021, for your kind perusal. The soft copy of Monthly Progress Report has already sent through E-mail at ruby.raju@nmcg.nic.in, drpravin@nmcg.nic.in, emcukcsoffice@gmail.com asudhakar.cpcb@nic.in.

Enclosed: As above.

Your's faithfully,

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

Copy to:

1. Additional Chief 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 Secretary, Environment Monitoring Cell, Office of Chief Secretary, Secretariate, Dehradun for kind information and necessary action please.
3. Shri A. Sudhakar, DH, Central Pollution Control Board (WQM-I Division), Parivesh Bhawan, East Arjun Nagar, Shahdara, Delhi-110032 for kind information please.

Member Secretary

OC

National Mission for Clean Ganga
Format for submission of Monthly Progress Report (November, 2021) in the NGT matter OA No. 673 of 2018 (in compliance to NGT order dated 24.09.2020) for the State of Uttarakhand

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 Plant:

Existing no. of STPs and Treatment Capacity (in MLD)	66 STPs of 396.755 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	21.00	10.91
Almora	2.00	1.65
Pithoragarh	6.25	1.80
Total	**396.755**	**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.
Gap in Treatment Capacity in MLD	Urban- 93.498 MLD (329.32-235.822)
No. Of Operational STPs	**62**
No. of Non-Operational STPs	**04** 1. 0.100 MLD STP at Karnprayag (Ward no. 1 & 3) 2. 0.050 MLD STP at Karnprayag (Naya Pull) 3. 0.075 MLD STP at Rudraprayag (Near Anoop Negi School) 4. 0.075 MLD STP at Devprayag
No. of Complying STP's	As per standards notified by MOEF& CC: - **59** As per standards prescribed by the Hon'ble NGT order dated 30.04.2019: - **49** (Out of 62 operational STPs, monitoring of 02 STP (i) 0.1000 MLD STP at Nandprayag, (ii) 1.00 MLD STP at Gangotri, Uttarkashi could not be conducted.

27.12.2021

No. of Non-complying STP's	As per standards notified by MOEF& CC: **01** As per standards prescribed by the Hon'ble NGT order dated 30.04.2019: **11**

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 each existing STPs in the State during the month of November, 2021.

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	Complying
3	Badrinath (Near suspension Bridge) Distt. Chamoli	1.00	0.200	Operational	Complying	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 (Deen Dayal Upadhayay	1.12	0.075	Operational	Complying	Complying

	Park), Baiterni, Distt.-Chamoli					
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	**Monitoring could not be done.**	
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	**Non-Operational**	**Due to heavy rainfall carrier line was damaged.**	
15	Karanprayag (Subhash Nagar) Distt.-Chamoli	0.05	0.02	Operational	Complying	Complying
16	Karanprayag (Naya Pull) Distt.-Chamoli	0.05	0.005	**Non-Operational**	**STP is drain based & drain was damaged by NHAI.**	
17	Rudraprayag (Near Anoop Negi School), Distt. - Rudraprayag	0.075	0.075	**Non-Operational**	**Due to heavy land slide STP was shut down.**	
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
22	Rudraprayag (Belani) Distt-Rudraprayag	0.05	0.025	Operational	Complying	Complying

23	Kirtinagar (BRO Bridge), Distt.-Tehri	0.05	0.03	Operational	Complying	Complying
24	Kirtinagar (Near Temple), Distt-Tehri	0.01	0.01	Operational	Complying	Complying
25	Bhagirathipuram, Distt. -Tehri	5.00	2.50	Operational	Complying	Complying
26	Chorpani, Dhalwala, Distt.-Tehri	5.00	4.20	Operational	Complying	Complying
27	Chandreshwar Ghat, Dhalwala, Distt.-Tehri	7.50	6.50	Operational	Complying	Complying
28	Tapovan, Rishikesh Distt.-Tehri	3.50	1.10	Operational	Complying	Complying
29	Shanti bazar, Devprayag, Distt.-Tehri	0.075	0.04	**Non-Operational**	**Due to cloud burst sewer line damaged.**	
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 due to seasonal closure.**	
34	Nursery Road, Srinagar Distt.-Pauri	3.50	1.50	Operational	Complying	**Non-Complying**
35	Srinagar (Near ITI) Distt.-Pauri	1.00	0.50	Operational	Complying	Complying
36	Taulia, Srikot Distt.- Pauri Garhwal	0.05	0.008	Operational	Complying	Complying
37	Near Junior High School, Srikot, Srinagar Distt.- Pauri	0.075	0.070	Operational	Complying	Complying
38	Swargashram, Rishikesh, Distt.-Pauri	3.00	2.12	Operational	Complying	Complying
39	Lakkarghat, Rishikesh	26.00	12.30	Operational	Complying	Complying

	Distt.-Dehradun					
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	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	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	0.71	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	Complying	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	Complying
55	Landour, South, Mussoorie Distt.-Dehradun	1.30	0.10	Operational	Complying	Complying
56	Landour, North, Mussoorie Distt.-Dehradun	0.80	0.035	Operational	Complying	Complying

57	Kulri Bazaar, Mussoorie Distt.-Dehradun	0.90	0.35	Operational	Complying	Complying
58	Hari Nagar, Nainital Distt.-Nainital	0.45	0.25	Operational	Complying	**Non-Complying**
59	Krishnapur, Nainital Distt.-Nainital	0.80	0.45	Operational	Complying	**Non-Complying**
60	Bheemtal, Nainital Distt.-Nainital	1.25	0.810	Operational	Complying	**Non-Complying**
61	Bakh, Almora Distt.-Almora	2.00	1.65	Operational	Complying	**Non-Complying**
62	Roosi, Nainital, Distt.- Nainital	10.00	6.75	Operational	**Non-Complying**	**Non-Complying**
63	Z-1 Pithoragarh Distt.- Pithoragarh	5.00	1.00	Operational	Complying	**Non-Complying**
64	Z-2 Pithoragarh Distt.- Pithoragarh	1.25	0.80	Operational	Complying	**Non-Complying**
65	Ramnagar Distt.- Nainital	7.00	2.5	Operational	Complying	**Non-Complying**
66	Ramnagar, Puchdi, Distt.- Nainital	1.50	0.15	Operational	Complying	**Non-Complying**
	Total	**396.755**	**235.822**			

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	**23%**	Sewer lines already laid in 13th Finance Programme.	March, 2022
2	Marwari, Joshimath Distt. -Chamoli	2.70	**25 %**	-	March,2022
3	Haldwani (Indira Nagar) Distt. -Nainital	28.00	**70%**	Sewer line is already laid/is being laid in AMRUT Programme	March, 2022.
4	Narayan Nagar, Nainital Distt. -Nainital	0.450	**100 %**	Sewer line is already laid/is being laid in AMRUT Programme	**Trial run started dated 30.11.2021**
5	Kashipur Distt. -US Nagar	18.00	**70 %**	-	March, 2022
	Total	**52.15**			

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	**Kashipur** Distt. -US Nagar (Proposed under river Rejuvenation of Dhella.)	10.00	GO issued vide NMCG F.No.: Pr. 12011/9/19-O/o Dir (T-III) NMCG dated 16.09.2021. under Namami Gange Programme. Tender invited vide Ce Ganga, UK Peyjal Nigam, Dehradun letter No-262/Mu A Go Karya Ganga/27 dated 16.09.2021	Sanctioned by NMCG & Tendering process is under progress.
2	**Mukhandpur, Kashipur** Distt. -US Nagar (Proposed under river Rejuvenation of Bhella.)	0.50		
3	**Gularia, Kashipur** Distt. -US Nagar (Proposed under river Rejuvenation).	0.30		
4	**Jaspur Khurd, Kashipur,** Distt. -US Nagar (Proposed under river Rejuvenation of Bhella).	1.00		
5	**Hempursmile, Kashipur** Distt. -US Nagar (Proposed under river Rejuvenation of Bhella).	2.00		
6	**Beljuri, Kashipur,** Distt. -US Nagar (Proposed under river Rejuvenation of Bhella).	0.50		
7	**Bazpur** Distt. -US Nagar (Proposed under river Rejuvenation of River Pilakhal).	10.00		
8	**Kichha, Rudrapur** Distt. -US Nagar (Proposed under river Rejuvenation of Kichcha).	3.00		
9	**Sitarganj,** Distt. UdhamsinghNagar (Proposed under Nandhor River Rejuvenation)	3.00		
10	**Rudrapur** Distt. -US nagar (Proposed under river Rejuvenation of Kalyani.)	-	DPR Under preparation under Namami Gange Programme	
11	**Mussoorie,** Distt. -Dehradun.	0.70	**DPR sanctioned by State Govt. but fund awaited.**	-
12	**Mussoorie,** Distt. -Dehradun.	1.10	**DPR sanctioned by State Govt. but fund awaited.**	-

13	**Mussoorie,** Distt. - Dehradun.	0.70	**DPR sanctioned by State Govt. but fund awaited.**	-
14	**Mussoorie,** Distt. - Dehradun.	0.70	DPR submitted to State govt. for fund allocation.	-
15	**Mussoorie,** Distt. - Dehradun.	0.05	DPR submitted to state govt. for fund allocation.	-
16	**Rusi Pond,** Distt. -Nainital (UISD program)	18.00	DPR approved under ADB Program	Under tendering process.
17	**Pandeykhaula** Distt. -Almora	1.50	DPR approved under State Sector program	**Sanctioned by NMCG & tender finalised and contract bond under process.**
	Total	**53.05**		

- 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 (Segmnet-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 by 44 STPs.
- 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-drains and establishment of 09 STPs along the 06 polluted river stretches.
- 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.
- I&D with STP (09 no.) works for 06 nos. stretches (Bhela, Dhela, Kichha, Kosi, Nandhore, Pilakhar in Kashipur, Distt. Udham Singh Nagar).

3. Details of Industrial Pollution:

No. of industries in the State	8554
No. of water polluting industries in the State	854
Quantity of effluent generated from the industries in MLD	145 MLD
Quantity of Hazardous Waste generated from the industries	22,736.50 TPA (2020-21)
Number of industrial units having ETPs	854
Number of industrial units connected to CETP	1079 (350 wet,709 dry units)
Number and total capacity of ETPs (details of existing/ under construction/proposed)	175 MLD

Compliance status of the ETPs	All the SCN issued to GPI units has been revoked & all units 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 CETPs: 19 MLD 1. Kashipur- 1 No. {3MLD (in module 1.5 + 1.5 MLD)} 2. Sitarganj - 2Nos. {12 MLD (Package i &ii in Module 2+5+5 MLD)} & 4MLD (package-iii, in module 2+2 MLD) under designing phase. Tender documents for establishing proposed CETPs are being under preparation with technical cooperation from GIZ. Based on review done by expert on techno economic feasibility it was concluded that CETP is not feasible in IIE Kashipur while in IIE Sitarganj the capacity of CETP estimated is 8 MLD only and that to only one CETP catering to all three packages will be developed accordingly tender documents for establishing proposed CETP is being under preparation with technical cooperation from GIZ.
Status of compliance and operation of the CETPs	All 03 operational CETPs are complying with the environment 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 Moto corp has its own ETP)	One existing CETP with 5.2 MLD Capacity operational and complying to the norms.
IIE, Pantnagar (USNagar)	499	2.0 MLD	474 units are connected (01 industry M/s Ridhi Sidhi has its own	One existing CETP with 4.0 MLD Capacity operational

			ETP) and rest 24 units are proposed to be connected by 31.12.2021, however, all these units are having their own ETPs. M/S Roquette Riddhi Siddhi Pvt Ltd., IIE Pantnagar has its own ETP.	complying to the norms.
Sitarganj (US Nagar)	75	2.0 MLD	All 75 units are connected to CETP.	One existing CETP with 4.0 MLD Capacity operational and complying to the norms.

4. Solid Waste Management

Total number of Urban Local Bodies and their Population	100 Urban Local Bodies, Population- 3440814 (09 ULBs are newly added)
Current Municipal Solid Waste Generation	1545.47 MTPD
Number, installed capacity and utilization of existing MSW processing facilities in TDP (bifurcated by type of processing e.g.- Waste to Energy (Tonnage and Power Output), Compost Plants (Windrow, Vermi, decentralized pit composting), bio methanation, MRF etc. Existing Facilities	▪ Two waste processing & Sanitary Land Fill facilities (SLF) (Dehradun: 350 Ton/day & Haridwar: 250 Ton/day capacity) are functional in the State. ▪ Total 30 MRF have been developed by ULBs {02 Material Recovery Facility installed at Dehradun (Near ISBT and Harrawala) with financial support from UKPCB and UNDP & 01 Number of MRF in Rishikesh (UNDP)} are functional and one MRF in Rishikesh is in process of installation. ▪ German International Corporation, GIZ is in the process to establish Plastic Waste Management units in Haridwar and Rishikesh under Ganga Plastic Partnership. Land has been allocated for Material Recovery Facility and tendering is in process. ▪ Plastic Compactors- 56 installed (01 PC in Badrinath is damaged due to snowfall) Revenue generated from the plastic compactors is Rs. 243.90 Lacs by selling 60.97 Lacs Tones till date FY 2018-2021.
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 & in Haridwar 47.6% utilisation (100 mm Trommel is being added into current plant for increasing the plant capacity & tender is in process for increasing the waste disposal).
Nos. and capacity of C&D waste processing plants in TDP (existing, proposed and under construction)	▪ 68 ULBs have reported either no generation of C&D waste or the same is used in backfilling. ▪ 16 ULBs have reported waste generation, out of which 08 have identified site for this purpose

	amongst these 16 ULBs, C&D Plant is proposed in Dehradun, Rishikesh and Kashipur under NCAP (National Clean Air Program) for which Site has been identified. DPR in process of preparation with the help of UUSDA (Uttarakhand Urban Sector Development Agency). ▪ Remaining 07 ULBs didn't report any data on waste generation, and are in process of assessing C&D of waste generation data & details regarding 09 Newly formed ULBs is in process.
Total no. of wards, no. of wards having door to door collection service, no. of wards practicing segregation at source.	Total number of Wards-1152. Door to door Collecton-1152. Source Segregation-999.
Details of MSW treatment facilities proposed and under construction (no., capacity, and technology)	▪ 02 SWM plants functional in Dehradun & Haridwar covering 05 ULBs. ▪ 01 SWM (Haldwani Cluster) project covering 07 ULBs is in tendering process. ▪ 51 DPRs covering 55 ULBs: approved by GoI & Fund release in form of Central share in all 56 ULBs & State share in 51 projects covering 60 ULBs (Kotdwar project has been allotted Rs. 4.45 Cr (50% of state share) by GoUK & central share of 35% allotted by GoI yet to be released by GoUK). ▪ 02 DPRs covering 10 ULBs funds (35%) allotted by GoI on 15.06.2021. In cluster, 35% central share released by MoHUA, GoI and to be released by GoUK. ▪ 05 DPRs covering 10 ULBs: Funds released by GoI, going to be issued by GoUK. ▪ 02 DPRs (Kedarnath and Shiwalik Nagar) covering 02 ULBs are prepared and are at different stages of approval. ▪ 01 DPR covering 01 ULB (Chaukhutiya), DPR approved by GoUK & Sent to GoI for approval. ▪ (5+ 7+ 56+ 10 + 10 + 2+ 1 =91) **Collection & Transportation vehicles have been purchased by ULBs in initial phase to implement 100 % door to door collection & 100% source segregation.** **ULBs are in process of obtaining Environmental Clearance & Authorization, Construction is proposed after obtaining CTE from UKPCB. Status is given bellow:** **Environmental Clearance Obtained-** Dehradun, Haldwani- Rudrapur, ISWM cluster (In tender process), Srinagar & Haridwar. **Applied for Environmental Clearance-** Almora, Rishikesh, Kotdwar, Ramnagar, Tehri, Chamba, Chamoli, Joshimath, Pauri. **In process of Applying for Environmnetal Clearance-** Dineshpur, Roorkee. **Applied for Authorization-** Doiwala, Sitarganj, Purola, Dugadda, Chinyalisaur, Dineshpur,

	naugaon, Pipalkoti, Gauchar, Uttarkashi, Badrinath, Chamiyala, Gularbhoj, Augustmuni, Lambgaon, Pirankaliyar, Ghansali, Mahuakhedaganj, Devprayag, Kirti Nagar, Gairsain, Barkot. **TOR received from PCB-** Pauri.
No. and area (in acres) of uncontrolled garbage dumpsites and Sanitary Landfills	▪ 02 Scientific Sanitary Landfill (Haridwar & Dehradun). ▪ Currently 61 ULBs have reported that legacy waste has been removed/ processed. ▪ Total legacy waste estimated at 27 locations are 21.43 lakhs cubic meter, remaining 3 ULBs are in process of measurement. ▪ For 7 ULBs, quantity 19.45 lakh cubic meter costing Rs. 126.53 Cr. ▪ Population >1 lakh, proposal approved by SHPC on 19.02.2021 & sent to GoI, in principal approval given by GoI & total Rs. 48.78 lakhs (0.38%) released by GoI for these 8 sites of 7ULBs (Remediation work started at 3 sites- (Kotdwar, Kashipur & Rishikesh) sources from 3 ULBs out of above mentioned 8 dumpsites). ▪ Request vide letter no. 906/743/SBM/SWM/Li/Ve/2019-20 dt. 23.07.2021 sent to GoI for availing the 35% central share for the remediation of sites in ULBs having population more than 1 Lakh. ▪ **In 9 ULBs-** waste is being remediated from own sources of ULBs (Gochar, Rudrapur, Karnprayag, Muni Ki Reti, Uttarkashi, barkot, Mussorrie, Pithoragarh, & Joshimath). ▪ **In 4 ULBs-** DPR has been prepared & at different stages of evaluation (Srinagar, Manglaur, Doiwala, Ramnagar). ▪ **Remaining 07 ULBs-** have measured the waste & are in process of DPR preparation (Almora, Chamba, Gangolihat, Jhabreda, Berinag, Landhawa, & Khatima). ▪ **In 03 ULBs-** are yet to measure waste quantity namely; Sitarganj, Purola and Chaukhutiya). ▪ **Progress- Approximately 1 Lakh Tonnes of waste has been remediated cumulatively from above sites. (Rishikesh, Kotdwar, Uttarkashi, Rudrapur & Muni Ki Reti).**
No. and area (in acres) of legacy waste within 1km buffer of both side of the rivers	07 (Uttarakashi, Haldwani, Kotdwar, Doiwala, Shrinagar, Rishikesh & Purola), as informed respective by ULBs.
No. of drains falling into rivers and no. of drains having floating racks/screens installed to prevent solid waste from falling into the rivers	There are total 181 small and big drains in Ganga Towns, tapping/ jaal on drains done in all the drains, tapping done by Jal Nigam and regular cleaning is being done by concern Jal Nigam/ and ULBs.

Status of ULB wise Management of Solid Waste:

S. No.	ULB	Total MSW generation in TPD	Total MSW being processed in TPD	Existing MSW facilities	Utilization Capacity of the existing MSW facilities	Proposed MSW Facilities & Completion Timeline
1	Dwarahat, Distt.-Almora	1.5	1.5	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share
2	Almora Distt.-Almora	7.7	7.7	No facility exists.	Nil	
3	Ranikhet Chiniyanaula Distt-Almora	1.3	1.3	No facility exists.	Nil	
4	Chaukhutiya Distt-Almora	1.9	**1.9**	-	-	Approved by GoUK. Sent to GoI for approval.
5	Bhikyasain Distt. Almora	2	0.0	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share.
6	Bageshwar, Distt.- Bageshwar	7.5	4.0	No facility exists.	Nil	
7	Kapkot, Distt.- Bageshwar	1.9	0.0	No facility exists.	Nil	
8	Badrinathpuri Distt.-Chamoli	0.0	0.0	No facility exists.	Nil	
9	Joshimath Distt.-Chamoli	2.2	2.2	No facility exists.	Nil	
10	Chamoli Distt.-Chamoli	5	4.5	No facility exists.	Nil	
11	Nandprayag Distt.-Chamoli	0.5	0.3	No facility exists.	Nil	
12	Gauchar Distt.-Chamoli	5.2	3.9	No facility exists.	Nil	
13	Karanprayag Distt.-Chamoli	4.1	2.3	No facility exists.	Nil	
14	Gairsain Distt.-Chamoli	2	0.0	No facility exists.	Nil	
15	Pokhari Distt.-Chamoli	1.9	1.0	No facility exists.	Nil	
16	Pipalkoti Distt.-Chamoli	0.2	0.0	No facility exists.	Nil	
17	Tharali Distt.-Chamoli	0.2	0.0	No facility exists.	Nil	
18	Champawat, Distt. Champawat	4.8	2.0	No facility exists.	Nil	
19	Lohaghat, Distt. Champawat	2.6	1.0	No facility exists.	Nil	
20	Tanakpur, Distt. Champawat	10.6	2.3	No facility exists.	Nil	Approved by GoI, Funds

21	Banbasa Distt. Champawat	3.4	0.0	No facility exists.	Nil	allotted of central & state share. Approved by GoI, Going to be issued by GoUK
22	Vikasnagar Distt.- Deheadun	16.8	16.8	In cluster along with Dehradun SWM plant.		In Dehradun Cluster. Plant functional
23	Herbertpur Distt.-Dehradun	4.0	1.5	In cluster along with Dehradun SWM plant.		
24	Mussoorie Distt.-Dehradun	**16.7**	**16.3**	In cluster along with Dehradun SWM plant.		
25	Doiwala Distt.-Dehradun	30.0	30.0	No facility exists.	Nil	35% CA released by MoHUA, GoI yet to be released by GoUK.
26	Dehradun Distt.-Dehradun	379.7	379.7	Facility exists.	300	Plant Functional
27	Rishikesh Distt.-Dehradun	77.4	25.8	No facility exists.	Nil	35% CA released by MoHUA, GoI yet to be released by GoUK.
28	Pauri Distt.-Pauri	8	2.4	No facility exists.	Nil	Approve by GoI, Funds allotted of central & state share.
29	Dugadda Distt.-Pauri	1.1	0.0	No facility exists.	Nil	
30	Kotdwar Distt.-Pauri	60	0.0	No facility exists.	Nil	35% CA released by MoHUA, GoI yet to be released by GoUK. Rs. 4.45 Cr released by GoUK to ULB.
31	Swargashram Jonk Distt.-Pauri	1.9	0.0	No facility exists.	Nil	35% CA released by MoHUA, GoI yet to be released by GoUK.
32	Satpuli Distt.-Pauri	0.2	0.0	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share.
33	Srinagar Distt.-Pauri	10	10	No facility exists.	Nil	

34	Jhabrera (Roorkee) Distt- Haridwar	9.8	6.0	No facility exists.	Nil	35% CA released by MoHUA, GoI yet to be released by GoUK.
35	Manglaur (Roorkee) Distt.-Haridwar	16	0.0	No facility exists.	Nil	
36	Haridwar Distt.-Hardwar	126.0	62.0	Facility exists.	150	Plant Functional
37	Laksar (Roorkee) Distt-Haridwar	5.3	5.3	No facility exists.	Nil	35% CA released by MoHUA, GoI yet to be released by GoUK.
38	Shivalik Nagar Distt.-Haridwar	9.7	7.0	No facility exists.	Nil	DPR in process of approval
39	Bhagwanpur (Roorkee) Distt.-Haridwar	8.7	8.7	No facility exists.	Nil	35% CA released by MoHUA, GoI yet to be released by GoUK.
40	Piran Kaliyar Distt.-Hardwar	9.0	0.0	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share.
41	Roorkee Districk-Hardwar	104.0	104.0	No facility exists.	Nil	35% CA released by MoHUA, GoI yet to be released by GoUK.
42	Landhaura (Roorkee) Distt-Hardwar	7.0	3.8	No facility exists.	Nil	
43	Nainital Distt.-Nainital	15.0	15.0	No facility exists.	Nil	DPR approved, In tendering process in Haldwani-Rudrapur Cluster
44	Bhowali Distt.-Nainital	1.9	0.0	No facility exists.	Nil	
45	Haldwani-Kathgodam Distt.-Nainital	116.1	0.0	No facility exists.	Nil	
46	Ramnagar Distt.-Nainital	13.2	0.0	No facility exists.	Nil	Approved by GOI, GO to be issued by GoUK, state fund allotted.
47	Kaladhungi Distt.-Nainital	3.4	0.0	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share.
48	Lalkuan Distt.-Nainital	3.1	0.0	No facility exists.	Nil	DPR approved, In tendering process,
49	Bhimtal Distt.-Nainital	2.3	0.0	No facility exists.	Nil	

						Haldwani Cluster
50	Dharchula Distt.- Pithoragarh	3.8	0.0	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share.
51	Pithoragarh Distt.- Pithoragarh	26.1	0.0	No facility exists.	Nil	Approved by GOI, Funds allotted of state share, central share yet to be released.
52	Gangolihat, Distt. Pithoragarh	0.3	0.0	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share.
53	Berinag, Distt. Pithoragarh	1.5	0.0	No facility exists.	Nil	
54	Didihat, Distt.- Pithoragarh	3.0	0.0	No facility exists.	Nil	
55	Kedarnath, Distt.- Rudraprayag	0.2	0.0	No facility exists.	Nil	DPR in process of approval
56	Ukhimath, Distt.- Rudraprayag	0.6	0.0	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share.
57	Augustmuni Distt.- Pithoragarh	2.1	2.1	No facility exists.	Nil	
58	Tilwara, Distt.- Rudraprayag	60.3	40.2	No facility exists.	Nil	
59	Rudraprayag Distt- Rudraprayag	3.2	3.2	No facility exists.	Nil	
60	Kirtinagar Distt.-Tehri	1.0	0.8	No facility exists.	Nil	
61	Devprayag Distt.-Tehri	5.0	5.0	No facility exists.	Nil	
62	New Tehri Distt.-Tehri	9.6	9.6	No facility exists.	Nil	
63	Chamba Distt.-Tehri	3.9	3.9	No facility exists.	Nil	
64	Muni Ki Reti Distt.-Tehri	13.9	13.9	No facility exists.	Nil	
65	Ghansali Distt.-Tehri	0.2	0.0	No facility exists.	Nil	
66	Lambgaon Distt.-Tehri	0.8	0.0	No facility exists.	Nil	
67	Gaja Distt.-Tehri	1.0	0.5	No facility exists.	Nil	
68	Chamiyala Distt.-Tehri	1.0	0.5	No facility exists.	Nil	

69	Narendranagar Distt.-Tehri	1.5	1.2	No facility exists.	Nil	In Rishikesh Cluster, Approved from GoI, Funds allotted by GoI (35%).
70	Kashipur Distt.- U.S.Nagar	53.2	0.0	No facility exists.	Nil	35% CA released by MoHUA, GoI yet to be released by GoUK.
71	MahuaDabra Hariura Distt.-US Nagar	2.3	0.8	No facility exists.	Nil	
72	Jaspur Distt.-US Nagar	25.0	19.4	No facility exists.	Nil	
73	Sultanpur Patti Distt.-US Nagar	4	0.0	No facility exists.	Nil	In Gadarpur Cluster, Approved by GOI, State share allotted, Central share to be allotted.
74	Bazpur Distt.-US Nagar	11.0	0.7	No facility exists.	Nil	
75	KelaKhera Distt.-US Nagar	4.5	0.0	No facility exists.	Nil	
76	Rudrapur Distt.-US Nagar	62.4	0.0	No facility exists.	Nil	In Haldwani Cluster, in tendering process
77	Kichha Distt.-US Nagar	25	0.0	No facility exists.	Nil	
78	Dineshpur Distt.-US Nagar	4.4	0.0	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share.
79	Shaktigarh Distt.-US Nagar	1.2	0.3	No facility exists.	Nil	
80	Sitarganj Distt.-US Nagar	19.0	0.0	No facility exists.	Nil	
81	Khatima Distt.-US Nagar	28.9	0.0	No facility exists.	Nil	DPR approved by GoI, GO to be issued by GoUK
82	Nanakbata Distt.-US Nagar	4.0	0.0	No facility exists.	Nil	Approved by GoI, Funds allotted of central & state share.
83	Gularbhoj (Dineshpur) Distt.-US Nagar	2.9	2.4	No facility exists.	Nil	
84	Mahua Kheraganj Distt-US Nagar	2.1	0.0	No facility exists.	Nil	
85	Gadarpur Distt.-US Nagar	7.7	0.0	No facility exists.	Nil	In Gadarpur Cluster, Approved by GoI, fund allotted by state
86	Barkot Distt.- Uttarkashi	3.0	0.0	No facility exists.	Nil	Approve by GoI, Funds allotted of central & state share.
87	Uttarkashi	10.0	8.1	No facility exists.	Nil	

	Distt.- Uttarkashi					
88	Gangotri Distt.- Uttarkashi	0.1	0.1	No facility exists.	Nil	
89	Purola Distt.- Uttarkashi	2.4	1.8	No facility exists.	Nil	
90	Chinyalisaur Distt.- Uttarkashi	2.5	2.5	No facility exists.	Nil	
91	Naugoun Distt.- Uttarkashi	1.9	0.5	No facility exists.	Nil	
92	Padli Gurjar Distt.- Haridwar	Details not provided by ULBs, since the ULBs are newly formed.				Newly Formed ULBs
93	Thalisain Distt.- Pauri	Details not provided by ULBs, since the ULBs are newly formed.				
94	Garud, Distt.- Bageshwar	Details not provided by ULBs, since the ULBs are newly formed.				
95	Lalpur Distt.- US Nagar	Details not provided by ULBs, since the ULBs are newly formed.				
96	Imlikheda Distt.-Haridwar	Details not provided by ULBs, since the ULBs are newly formed.				
97	Rampur Distt.-Haridwar	Details not provided by ULBs, since the ULBs are newly formed.				
98	Dhandera Distt.-Haridwar	Details not provided by ULBs, since the ULBs are newly formed.				
99	Siraulikalan Distt.-US Nagar	Details not provided by ULBs, since the ULBs are newly formed.				
100	Selaqui Distt.-Dehradun	6	0	No facility exists.	Nil	
	Total	**1545.5**	**843.91**			

- **Treatment and Disposal facility for SWM- Land Identification and Procurement status is as follows (for Total 91 ULBs):**
- Procurement of land completed for 75 ULBs (9 Clusters serving 34 ULBs and 41 ULBs procured individually)
- Land identified on rent basis: 6 ULBs land on rent (Nathuvawala Model: Ward No. 100 Dehradun).
- 01 Cluster covering 2 ULBs have identified forest land.
- 07 ULBs individually identified forest land.
- 01 ULB individually identified revenue land.

(75+6+9+1=91)

5. Bio-medical Waste Management:

▪	Total Bio-medical generation	1690.87 TPA i.e 4.632 TPD (Year 2020).
▪	No. of Hospitals and Health Care Facilities	4442
▪	Status of Treatment Facilities/CBMWTF	Two CBMTF facilities are operational in the State with existing capacity of 1752 TPA i.e. 4.80 TPD.

		One more CBMWTF is proposed in Narendra Nagar for which EC has been granted by SEIAA.

The existing capacity of the common bio-medical waste treatment and disposal facilities (CBMWTF) is more than total waste generation in the State.

6. Hazardous Waste Management:

Total Hazardous Waste generation	22736.5 Tonnes (Year 2020-21)
No. of Industries generation Hazardous waste	4475
Treatment Capacity of all TSDFs	Incineration-12000 Tonnes Land filling-8000 Tonnes
Quantity of Hazardous waste reached the TSDFs and Treated (Year 2019-20)	23137.68 Tonnes (Year 2020-21) *Landfillable-2519.94 Tonnes* *Incinerable-4856.05 Tonnes* *Recyclable: 14423.72 Tonnes* *Co-processed: 1263.56 Tonnes (In Cement Kilns)* *Utilization: 74.41 Tonnes* *(Year 2020-21)* *(Including stored waste of year 2019-20 at occupier's premises)*
Details of on-going or proposed TSDF	Expansion of existing facilities are proposed.

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

7. Plastic Waste Management:

Total Plastic Waste generation	183000 MTPA (25000 MTPA by ULBs and 158000 MTPA plastic waste is collected and recycled by 34 Recyclers)
Treatment/Measures adopted for reduction or management of plastic waste	▪ Plastic Compactors- **56 installed** (01 PC in Badrinath is damaged due to snowfall) Revenue generated from the plastic compactors is Rs. 237.15 Lacs.

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	**Main Ganga Stream:** Total 131 drains identified along the main stream of river Ganga. Out of 131

	contributing to river pollution and action as per NGT order on in situ treatment	drains, 128 drains have been tapped, remaining 03 drains of Joshimath to be tapped by March, 2022. Dehradun: Total 177 nos small household drains has been sanctioned for I&D under Namami Gange Programme. Work is in progress. 115 Nos. completed (123 Nos. drains tapped) at Rispana River & 85% I&D works completed at Bindal River. Ramnagar: Total 06 nos. drains has been sanctioned under Namami Gange programme. All Nala have been tapped. **09 Polluted Stretches:** A. I&D with STP (09 No.) works for 06 Nos. stretches (Bhela, Dhela, Kichha, Kosi, nandhore, Pilakhar 9in Kashipur Distt. Udham Singh Nagar) has been sanctioned vide letter no. 12011/9/19-O/o- Dir(T-III) NMCG dated 17th September 2021 amounting to Rs. 199.36 crore. Tender finalised & contract bond is under process. B. The polluting stretch Kalyani River (Kumaon), DPR is under preparation by UKPJN & consultant has been finalised. DPR expected to be submitted by Dec, 2021. C. The polluting stretch Suswa River (Dehradun) will be 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 toSultanpur) is already meeting the bathing water criteria (may be considered as model River) Bio-remediation of drains – DPR of Rs. 2.59 Coroe 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 Chief of Secretary in the State/UT	04 Meetings held on dt. 10.02.2021, 04.03.2021, 09.07.2021, 15.11.2021.
12.	Latest water quality of polluted river, its tributaries, drains with flow details and groundwater quality in the catchment of polluted rive	Surface water quality of 09 polluted river stretches for month of Nov. 2021 is being attached herewith (Annexure-1).
13.	Groundwater regulation	----
14.	Good irrigation practices being adopted by the State	Treated water of 27 & 68 MLD STPs at Jagjeetpur, Haridwar is already being reused for irrigation through Canal system constructed for this purpose. A part from this micro irrigation practices such as sprinkler irrigation is being adopted by the irrigation department.
15.	Rain Water Harvesting	----
16.	Demarcation of Floodplain and removal of illegal encroachments	09 polluted stretches: Out of 09 polluted river stretches,05 are non-perennial, 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 & Kichha/Gola) flood plain zoning has been initiated, which will be completed by July 2022.
17.	Maintaining minimum e-flow of river	Govt of Uttarakhand has directed to all Hydro Electric Projects Developer 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 monitoring agency for the compliance of minimum E-Flow in the State of Uttarakhand. Compliance status of e-flow maintained by Hydro-Electric project Developer is being attached herewith **(Annexure 2).**
18.	Plantation activities along the rivers	The Plantation Activities are being carried out in the larger catchment area of Ganges. In Financial Year 20-21, at the end of January,2021 a total of 5181.64 ha of plantation activities have been completed under the various schemes of Uttarakhand CAMPA. Under River Rejuvenation programme, specifically, 180000 plants and 47000 plants were planted in the catchment of Kosi river in 2018-19 and 2019-20, respectively. Further, 60000 plants have also been planted in the catchment of Shipra River in 2020-21. In addition, 83376 contour trenches, 1999 recharge

		ponds, 530 percolation tanks and 124 ha ANR activities have been carried out in catchment areas of other rivers and streams under the river rejuvenation programme in 2020-21. The catchment area treatment of 06 polluted rivers of Uttarakhand (namely Bhella, Dhella, Suswa, Pilakhar, Nandhour and Kalyani rivers) has been included in river rejuvenation programme of Uttarakhand CAMPA, under which catchment area treatment of Nandhaur and Dhella rivers has been carried out in Terai East, Haldwani and Corbett Tiger Reserve division 2020-21. Under the same construction of crate wire wall (12 no.s), plantation of 4000 plants, 26 no.s spur, 142 no. of checkdams, trench construction of 2000 m etc. were undertaken by the concerned divisions. For 2021-22, sanction of proposed amount under relevant head has been sanctioned by the Executive Committee of the National CAMPA authority. Release of sufficient budget from GoUK is awaited against the sanctioned APO for the current year. The concerned implementing agencies have been asked to submit proposals for treatment of the polluted rivers of Uttarakhand as per Hon. NGT order 673/2018. Implementation of the same shall be done as per proposals received and availability of budget. Currently, proposals worth Rs. 54.00 Lakh have been received by this office for treatment of Bhella and Dhella rivers in the segments falling in Terai West Forest Division. The budget against the approval granted by National Authority are yet to be released by GoUK.
19.	Development of biodiversity park	-----
20.	Reuse of treated Water	Treated water of 27 & 68 MLD STPs at Jagjeetpur, Haridwar is already being reused in irrigation through Canal system constructed for this purpose. Proposal for STP located at Sarai is being submitted to Government for approval & sanction.
21.	Model River being adopted by the State & Action Proposed for achieving the bathing quality standards	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 Uttarakhand State.
23.	Regulation of Mining Activities in the State/UT	River Bed Mining in the State of Uttarakhand is carried out in a scientific and highly regulated manner as per the provisions of State Mining Policy and Uttarakhand Minor Minerals Rules, 2001 (Amended time to time) taking due care of environment and ecology of the area. It is compulsory to obtain Environment Clearance under EIA Notification 2006 prior to sanction of RBM Leases. Excavation of RBM is carried out as per approved mining plan and the Sustainable Sand Mining Guidelines-2016 of Ministry of Environment, Forest and Climate Change, Government of India within the demarcated area up to a depth of 03 meter or ground level whichever is less. It is also to compulsory to obtain Consent to Establish and Operate from State Pollution Control Board before commencing the Excavation of RBM. Excavation of RBM is done manually. The State Mining Policy and Rules does not permit use of machines i.e., JCB, Poclane etc. for excavation of River Bed Material. Thus, excavation of RBM does not have any adverse effect on environment and ecology. Further, as per the existing mining policy 2016 mining activities are not permitted from 30th June onwards up to 30th September during the Monsoon season. Also mining is prohibited from sunset to sunrise. The State Government has constituted a District Mining Fund (DMF) and promulgated District Mining Foundation Rule-2017 which provides that 25% of the Royalty of RBM excavated shall be deposited in DMF Fund which shall be utilized in the mining affected areas. The DMF Fund so collected is utilized in high priority areas like environment protection and pollution control, drinking water supply and health care, and cleanliness etc. and other priority areas like improving the quality of environment. Thus, the State Government is taking due care to safeguard the environment and ecology of the mining affected areas. The State Government is committed to stop illegal mining, illegal storage and illegal transportation of mineral. In order to prevent illegal mining, illegal transportation and illegal storage, the State Government has formulated Uttarakhand Mineral (illegal mining, transportation and storage prevention) Rules, 2021 under section 23 C of Mines and Mineral Regulation and Development Act, 1957. In the Rule 14 (5) (ka) of the said rule, the provision has been made to impose a penalty on persons found guilty of illegal mining and illegal

		storage of mineral and also on the seized River Bed Illegal Material. In the rule 14 (2) provisions have been made to penalize the vehicles involved in illegal transportation. At District level an Anti-Mining Cell comprising of officials from Revenue Department, Mining Department, Forest Department and Police Department is constituted for checking illegal mining, illegal storage and illegal transportation. To transport mineral from one place to another place a transit pass (rawana) is mandatory as per the relevant Rules. At every mine's entry and exit gate installation of CCTV camera and weigh bridges have been made compulsory. The State Government is also planning to inforce use of a vehicle tracking system on all the vehicles involved in transportation of minerals, so that the real time movement of vehicles can be tracked. Thus, the State Government is committed to ensure sustainable and scientific River Bed Mining in the State. The State Government recovered Rs 63.03 Crs as a penalty from 9111 cases of illegal transportation/illegal mining/Storage from April 2018 to November, 2021.
24.	Action against identified polluters, Law violators and officers responsible for failure for vigorous monitoring	Uttarakhand Pollution Control Board has collected total 1.89 Crs from various defaulters /low violators as environment compensation from violators unit.

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ANNEXURE-1

The Surface Water Quality of 09 Polluted river stretches for the month of NOVEMBER, 2021

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	18.11.2021	US	Dhella Bridge, Kashipur, Bhelijudi	29°13'12" N -78°56'42" E	7.4	3.6	10.8	38	366	245.22	62	540	220
		18.11.2021	DS	Gehruwala Village Pratappur	29°08'30" N -78°05'20" E	6.9	2	20	197	705	472.35	90	920	540
2	Bhella	18.11.2021	US	Bahella Bridge, Kashipur	29°16'43" N -79°01'19" E	7.3	3.5	13.8	41	320	214.4	59	920	540
		18.11.2021	DS	Bahella River rajpura tanda	29°07'45" N -78°59'03" E	6.9	1.9	21	206	722	483.74	88	430	280
3	Kichha	17.11.2021	US	Main Road Kichha	28°57'43" N -79°32'17" E	6.8	3.2	8.3	32	919	615.73	74	430	220
		17.11.2021	DS	Kichha Bridge	29°52'59" N -79°30'56" E	7.2	4	6.7	28	1010	676.7	65	920	430
4	Suswa	-	US	Mothrawala	30°13'59"N -78°01'48"E	8.1	3.0	26	78	570	378	-	≥1600	≥1600
		-	DS	Barafutta	30°8'19.9"N -78°7'49.8"E	7.56	7.2	1.6	6	454	302	-	63	40
5	Kalyani	18.11.2021	US	Pantnagar Ind. Area Rudrapur	29°01'44" N -79°24'28" E	7.3	3.7	12.8	34.1	533	357.11	73	350	170
		18.11.2021	DS	Rampura ground Rudrapur	28°57'52" N -79°24'08" E	6.8	1.7	26	216	1211	811.37	144	540	280
6	Kosi	18.11.2021	US	Bajpur bridge Sultanpur patti	28°09'32" N -79°02'19" E	7.4	5.3	5.1	25	489	327.63	78	210	110
		18.11.2021	DS	Bypass bridge pattikalan	29°04'31" N -79°02'24" E	7.5	5	5.9	29	523	350.41	82	280	140
7	Pilakhar	17.11.2021	US	Bajpur	29°10'21" N -79°08'44" E	7.2	4.7	9.3	24.5	423	283.41	62	240	150
		17.11.2021	DS	Rampur (U.P.)	29°12'12" N -78°58'42'E	7.4	4.3	14.5	33	450	301.5	59	540	350
8	Nandhour	17.11.2021	US	Sitarganj	29°04'36" N -79°41'36" E	7.3	5.3	4.1	16	415	278.05	51	220	110
		17.11.2021	DS	Nandhor Bridge, Sitarganj	28°55'149" N - 79°44'38" E	7.6	5.1	5.7	22	377	252.59	59	350	210
9	Ganga	-	US	Bindughat Dudhiyaban	29.970608°N-78.183854°E	8.3	9.6	2.5	7.0	215.0	137.6	-	70	46
		-	DS	Sultanpur	29.699043°N -78.166559°E	7.5	9.2	1.8	6.0	182	116.48	-	79	49

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27.12.2021

Annexure-2

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 2021)

S.No.	Name of Hydro Power Project	Capacity (MW)	District	Developer	Season	Months	% of E-Flow as per norms*	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	November	≥ 20 %	20.15	4.67	23.18%	
2	Srinagar HEP	330	Pauri Garhwal	GVK	Dry	November	≥ 20 %	273.51	16.31	5.96%	
3	Singoli Bhatwari HEP	99	Rudraprayag	L&T	Dry	November	≥ 20 %	45.13	15.80	35.01%	
4	(Tehri Dam + Koteshwar Dam)	(1000 + 400)	Tehri	THDCIL	Dry	November	≥ 20 %	96.84	151.67	156.62%	
5	Tiloth Power Station (Maneri Dam)	3 x 30 = 90	Uttarkashi	UJVNL	Dry	November	≥ 20 %	58.77	14.06	23.92%	
6	Dharasu Power Station (Joshiyara Barrage)	4 x 76 = 304	Uttarkashi	UJVNL	Dry	November	≥ 20 %	77.60	17.68	22.78%	
7	Chilla Power Station	4 x 36 = 144	Pauri Garhwal	UJVNL	Dry	November	≥ 20 %	554.36	137.93	24.88%	

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

Status of release of E-flow as per NGT order dated 09.08.2017 from the Hydro projects (> 25 MW) situated in the river/tributary other than Ganga river basin in the State of Uttarakhand (November 2021)

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-21	Minimum 15% of Average Lean Season flow	4.00	4.37	109.25%	
2	Tanakpur	120	Champawat	NHPC	Nov-21		164.00	38.83	23.68%	
3	Dakpathar Barrage (Dhalipur + Dhakrani)	(51 + 33.75)	Dehradun	UJVNL	Nov-21		96.80	14.59	15.07%	
4	Kulhal	30	Dehradun	UJVNL	Nov-21		13.03	2.66	20.41%	
5	Ichadi Dam (Chibro + Khodri)	(240 + 120)	Dehradun	UJVNL	Nov-21		55.82	9.57	17.14%	

* 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.

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 2021)

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-21	Minimum 15% of Average Lean Season flow	1.47	0.40	27.21%	
2	Gangani	8	Uttarkashi	Regency Gangani Energy	Nov-21		5.10	1.85	36.27%	
3	Badyar	4.9	Uttarkashi	Regency Yamuna Energy	Nov-21		1.30	0.55	42.31%	
4	Sarju-II	15	Bageshwar	Uttar Bharat Hydro	Nov-21		2.01	0.31	15.42%	
5	Sarju-III	10.5	Bageshwar	Uttar Bharat Hydro	Nov-21		4.06	0.63	15.52%	
6	Motighat	5	Pithoragarh	Himalya Hydro (P) Ltd.	Nov-21		2.00	2.03	101.50%	
7	Tanga	5	Pithoragarh	Himalya Hydro (P) Ltd.	Nov-21		3.05	2.03	66.56%	
8	Galogi SHP	3.5 MW	Dehradun	UJVNL	Nov-21		0.40	0.08	20.00%	
9	Ram Prasad Nautiyal, Dunao SHP	1.5 MW	Pauri Garhwal	UJVNL	Nov-21		2.86	2.86	100.00%	
10	Rajwakti	3.6	Chamoli	Him Urja	Nov-21		34.22	24.94	72.88%	
11	Vanala	15	Chamoli	Him Urja	Nov-21		25.17	15.61	62.02%	
12	Debal	5	Chamoli	Chamoli Hydro	Nov-21		2.50	2.38	95.20%	
13	Agunda Thati	3	Tehri	Gunsola Hydro	Nov-21		6.22	0.94	15.11%	
14	Bhilangana	22.5	Tehri	Swasti Power	Nov-21		11.05	2.89	26.15%	
15	Bhilangana- III	24	Tehri	Bhilangna Hydro Power	Nov-21		9.30	1.86	20.00%	
16	Birahiganga	7.2	Chamoli	Birahiganga Hydro Power	Nov-21		2.70	0.96	35.56%	
17	Pilangad SHP	2.25	Uttarkashi	UJVNL	Nov-21		2.10	1.07	50.95%	
18	Urgam SHP	3	Chamoli	UJVNL	Nov-21		3.57	3.57	100.00%	
19	Kaliganga -I SHP	4	Rudraprayag	UJVNL	Nov-21		2.35	0.49	20.85%	

* 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.