

Effluent Characteristics Report of STP

S.No	Name of the Treatment Plant	Sampling Point																Sampling Date
		Inlet of STP								Outlet of STP								
		Colour	Odour	pH	TSS (mg/L)	TDS (mg/L)	TS (mg/L)	BOD (mg/L)	COD (mg/L)	Colour	Odour	pH	TSS (mg/L)	TDS (mg/L)	TS (mg/L)	BOD (mg/L)	COD (mg/L)	
1.	M/s Uttarakhand Pay Jal Nigam Bheemtal, Nainital (Sewage Treatment Plant, Krishnapur, Nainital)	Turbid	Unpleasant	7.74	286	1376	1662	280	494	Colourless	Unpleasant	7.36	55	867	922	23	148	16.06.2017
2.	M/s Uttarakhand Pay Jal Nigam Bheemtal, Nainital (Sedimentation Tank, Rusi, Nainital) (Sedimentation Tank -I)	Turbid	Unpleasant	7.15	326	1016	1342	260	474	Turbid	Unpleasant	7.32	231	987	1218	160	345	16.06.2017
3.	M/s Uttarakhand Pay Jal Nigam Bheemtal, Nainital (Sedimentation Tank, Rusi, Nainital) (Sedimentation Tank -II)									Turbid	Unpleasant	7.28	194	864	1058	120	306	16.06.2017
4.	M/s Uttarakhand Pay Jal Nigam Bheemtal, Nainital (Sewage Treatment Plant, Hari Nagar, Nainital)	Turbid	Unpleasant	7.34	372	1336	1708	320	513	Colourless	Unpleasant	7.12	90	914	1004	48	167	16.06.2017
5.	M/s Uttarakhand Pay Jal Nigam Bheemtal, Nainital (Sewage Treatment Plant, Bheemtal)	Turbid	Unpleasant	6.82	186	985	1171	280	434	Turbid	Unpleasant	7.20	114	687	801	64	217	16.06.2017

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		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	0.26 MLD STP at Badrinath	Sample not Collected due to bad weather conditions.									
2.	3.5 MLD S.T.P. at Srinagar	160	7.89	165	320	40	7.42	18	76	500	07.09.2018
3.	0.075 MLD STP at Devprayag	168	6.90	170	348	46	7.48	22	94	500	07.09.2018
4.	0.150 MLD STP at Devprayag	158	6.79	165	327	44	7.52	24	96	500	07.09.2018
5.	1.4 MLD S.T.P. Devprayag	165	6.68	160	336	42	7.74	20	78	350	07.09.2018
6.	3.5 MLD STP Tapovan, Rishikesh	178	6.87	160	318	33	7.56	12	40	220	27.09.2018
7.	3 MLD S.T.P. at Swargashram, Rishikesh	162	6.92	165	330	18	7.35	10.8	42	110	27.09.2018
8.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	166	7.86	170	358	58	7.83	34	136	>1600	27.09.2018
9.	20 MLD STP at Mothurawala, Dehradun	168	7.86	160	320	30	7.32	18	68	240	29.09.2018
10.	68 MLD STP at Kargi, Dehradun	164	7.92	165	340	34	7.28	12	48	280	29.09.2018
11.	0.42 MLD STP at Vijay Colony, Dehradun	170	7.95	165	332	24	7.65	20	74	350	29.09.2018
12.	0.72 MLD STP at Salawala, Dehradun	162	7.89	170	310	38	7.48	18	66	350	29.09.2018
13.	27 MLD S.T.P. at Jagjeetpur, Haridwar	166	6.94	170	322	14	7.77	12	44	350	25.09.2018
14.	18 MLD S.T.P. at Jagjeetpur, Haridwar	162	6.72	160	310	18	7.75	10	38	220	25.09.2018
15.	18 MLD S.T.P. at Sarai, Haridwar	162	6.82	165	318	10	7.15	9.2	34	70	25.09.2018
16.	5 MLD at Bhagirathipuram, Tehri Garhwal	168	6.78	160	328	38	7.46	16	66	350	29.09.2018
17.	2 MLD STP at Gyansu, Uttarkashi	172	6.81	155	310	38	7.46	18	72	280	29.09.2018
18.	1 MLD STP at Gangotri, Uttarkashi	164	7.88	165	318	34	7.32	16	46	300	30.09.2018

Effluent Discharged Standards for Sewage Treatment Plant as directed by CPCB

Industry	Parameters	New
Sewage Treatment Plant	pH	6.5-9.0
	BOD	10
	COD	50
	TSS	20
	Fecal Coliform(MPN/100ml)	<100

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S.No.	Name of the Treatment Plant	Sampling Point									Sampling Date
		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	3 MLD S.T.P. at Swargashram, Rishikesh	242	6.18	230	488	10	7.42	9	42	60	19.06.2017
2.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	172	8.76	160	436	127	6.24	35	258	>1600	19.06.2017
3.	18 MLB S.T.P. at Jagjeetpur, Haridwar	148	8.12	178	410	11	7.22	10	48	80	30.06.2017
4.	18 MLD S.T.P. at Sarai, Haridwar	154	8.78	177	462	10	7.14	9	36	40	30.06.2017
5.	27 MLD S.T.P. at Jagjeetpur, Haridwar	168	9.02	185	422	14	7.18	11	52	90	30.06.2017
6.	1.4 MLD S.T.P. Devprayag, Tehri Garhwal	172	8.88	170	410	58	7.85	24	122	280	12.06.2017
7.	S.T.P. at JP Power venture, Joshimath	180	9.02	188	432	63	7.24	17	106	170	13.06.2017
8.	3.5 MLD S.T.P. at Srinagar					71	7.91	22	142	350	12.06.2017
9..	2 MLD STP at Gyansu	148	8.15	142	428	20	7.35	12	42	50	03.07.2017
10.	3.5 MLD STP Tapovan, Rishikesh	225	6.16	230	504	10	7.22	8	36	70	19.06.2017
11.	68 MLD STP at Kargi, Dehradun	227	6.13	210	488	10	7.41	8.5	32	80	01.07.2017
12.	20 MLD STP at Mothurawala	222	6.1	185	418	48	7.24	15	88	140	01.07.2017
13.	STP at Alkananda Hydro Project, Srinagar (Power House)	-	-	-	-	28	7.11	22	54	140	12.06.2017
14.	STp at Alaknanda Hydro Projec, Srinagar (Dam Site)	-	-	-	-	42	7.18	24	108	170	12.06.2017
15..	Alaknanda Hydro Project, Srinagar (Power House)	-	-	-	-	46	7.86	14	76	240	28.01.2017
16.	S.T.P. at Alaknanda Hydro (Dam Site) Srinagar	-	-	-	-	38	7.91	16	80	220	28.01.2017

Effluent Discharged Standards for Sewage Treatment Plant as directed by CPCB

Industry	Parameters	New
Sewage Treatment Plant	pH	6.5-9.0
	BOD	10
	COD	50
	TSS	20
	Fecal Coliform(MPN/100ml)	<100

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S.No.	Name of the Treatment Plant	Sampling Point									Sampling Date
		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	3 MLD S.T.P. at Swargashram, Rishikesh	178	9.45	175	394	10	7.41	9.6	34	80	17.01.2017
2.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	174	9.54	170	412	58	7.64	32	166	>1600	17.01.2017
3.	18 MLB S.T.P. at Jagjeetpur, Haridwar	175	9.58	170	406	10	7.51	9.6	36	60	17.01.2017
4.	18 MLD S.T.P. at Sarai, Haridwar	182	9.48	175	428	9	7.58	9.6	34	7	17.01.2017
5.	27 MLD S.T.P. at Jagjeetpur, Haridwar	168	9.37	170	394	12	7.60	9.2	36	80	17.01.2017
6.	1.4 MLD S.T.P. Devprayag, Tehri Garhwal	176	9.14	170	396	48	7.74	18	74	300	28.01.2017
7.	S.T.P. at JP Power venture, Joshimath	170	9.25	175	412	56	7.81	14	72	220	28.01.2017
8.	3.5 MLD S.T.P. at Srinagar	176	9.21	180	452	66	7.68	20	112	280	28.01.2017
9.	Alaknanda Hydro Project, Srinagar (Poer House)	-	-	-	-	46	7.86	14	76	240	28.01.2017
10	S.T.P. at Alaknanda Hydro (Dam Site) Srinagar	-	-	-	-	38	7.91	16	80	220	28.01.2017

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		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	3 MLD S.T.P. at Swargashram, Rishikesh	186	8.76	160	372	9	7.25	8.4	32	60	19.11.2016
2.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	176	8.86	165	438	40	7.79	34	172	>1600	19.11.2016
3.	18 MLB S.T.P. at Jagjeetpur, Haridwar	198	8.94	160	398	9	7.12	9.2	34	70	19.11.2016
4.	18 MLD S.T.P. at Sarai, Haridwar	163	8.91	170	432	10	7.19	9.2	36	50	19.11.2016
5.	27 MLD S.T.P. at Jagjeetpur, Haridwar	178	9.12	180	412	10	7.32	9.6	32	60	19.11.2016
6.	1.4 MLD S.T.P. Devprayag, Tehri Garhwal	179	8.97	175	416	64	7.82	22	118	350	30.11.2016
7.	M/s JP Power Ventures Joshimath, Chamoli	184	9.14	180	432	78	7.72	16	84	350	30.11.2016
8.	3.5 MLD S.T.P. at Srinagar	192	9.12	180	410	72	8.24	24	116	500	30.11.2016
9.	5 MLD S.T.P. at B. Puram Tehri	164	8.86	170	384	22	7.23	11.2	76	140	16.11.2016
10	S.T.P. At THDC Koteshwar	168	9.12	170	410	45	7.89	14	68	110	16.11.2016
11.	S.T.P. at THDC Tehri					38	8.12	14	64	50	16.11.2016
12.	2 MLD S.T.P. at Gyansu	152	8.84	160	410	18	8.19	9.2	32	60	16.11.2016
13.	3.5 MLD S.T.P. Tapovan Rishikesh					12	7.53	9.2	32	80	19.11.2016
14.	68 MLD S.T.P. at Kargi Dehradun	168	8.84	170	426	9	7.25	9.2	38	60	05.11.2016
15.	20 MLD S.T.P. at Mothurawala, Dehradun	164	9.12	180	386	14	7.46	11.2	38	70	05.11.2016

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		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	M/s JP Power Ventures Joshimath, Chamoli	168	9.38	190	430	38	7.91	18	90	280	09.10.2016
2.	M/s Alaknanda Hydro Project (Dam Site) Srinagar	188	9.31	180	478	46	7.84	14	84	300	08.10.2016
3.	M/s Alaknanda Hydro Project (Power House) Srinagar	198	9.42	180	465	44	8.16	18	90	280	08.10.2016
4.	3.5 MLD S.T.P. at Srinagar	176	8.98	185	436	58	7.86	22	108	350	08.10.2016
5.	3 MLD S.T.P. at Swargashram, Rishikesh	148	8.86	155	412	10	7.46	8.8	30	90	06.10.2016
6.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	154	8.92	175	464	46	7.81	32	198	>1600	06.10.2016
7.	18 MLB S.T.P. at Jagjeetpur, Haridwar	152	8.67	160	432	10	7.25	9.6	32	90	06.10.2016
8.	18 MLD S.T.P. at Sarai, Haridwar	156	8.78	165	448	9	7.21	8.4	32	60	06.10.2016
9.	27 MLD S.T.P. at Jagjeetpur, Haridwar	164	8.91	175	428	9	7.41	8.8	34	70	06.10.2016
10.	3.5 MLD S.T.P. Tapovan Rishikesh	144	8.79	170	472	12	7.42	9.6	38	110	06.10.2016
11.	68 MLD S.T.P. at Kargi Dehradun	168	8.84	170	426	9	7.25	9.2	38	60	05.11.2016
12.	20 MLD S.T.P. at Mothurawala, Dehradun	164	9.12	180	386	14	7.46	11.2	38	70	05.11.2016

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		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	M/s JP Power Ventures Joshimath, Chamoli	184	8.97	170	432	36	7.84	18	90	300	20.08.2016
2.	M/s Alaknanda Hydro Project (Dam Site) Srinagar	Sample not available				49	7.98	16	72	280	21.08.2016
3.	M/s Alaknanda Hydro Project (Power House) Srinagar	Sample not available				48	8.34	22	138	170	21.08.2016
4.	3.5 MLD S.T.P. at Srinagar	190	9.28	180	480	48	8.14	20	72	220	21.08.2016

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		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	3 MLD S.T.P. at Swargashram, Rishikesh	142	8.64	140	428	11	7.52	9.6	32	170	19.07.2016
2.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	146	8.74	180	492	76	8.12	32	210	>1600	19.07.2016
3.	3.5 MLD S.T.P. Tapovan Rishikesh	138	8.72	180	476	34	7.62	12.8	44	170	19.07.2016
4.	18 MLD S.T.P. at Jagjeetpur, Haridwar	137	8.24	170	438	9	7.32	9.2	34	80	18.07.2016
5.	18 MLD S.T.P. at Sarai, Haridwar	146	8.65	160	472	9	7.14	9.2	36	90	18.07.2016
6.	27 MLD S.T.P. at Jagjeetpur, Haridwar	158	8.84	170	412	10	7.45	9.6	36	60	18.07.2016
7.	68 MLD S.T.P. at Kargi Dehradun	162	8.72	175	448	10	7.34	9.6	34	80	20.07.2016

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1.	3 MLD S.T.P. at Swargashram, Rishikesh	128	8.72	165	460	12	7.61	10	34	80	09.05.2016
2.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	136	8.91	175	472	72	7.84	34	218	>1600	09.05.2016
3.	18 MLD S.T.P. at Jagjeetpur, Haridwar	119	8.02	180	472	10	7.41	9.6	36	6	09.05.2016
4.	18 MLD S.T.P. at Sarai, Haridwar	138	8.78	170	438	10	7.21	8.8	40	50	09.05.2016
5.	27 MLD S.T.P. at Jagjeetpur, Haridwar	162	8.97	175	388	12	7.52	10	38	40	09.05.2016
6.	68 MLD S.T.P. at Kargi Dehradun	164	8.97	180	462	12	7.46	9.2	36	50	12.05.2016
7.	20 MLD S.T.P. at Mothurawala, Dehradun	174	9.24	175	412	22	7.52	12.8	44	80	12.05.2016
8.	3.5 MLD S.T.P. at Srinagar	207	9.46	165	418	26	8.21	16	64	170	13.05.2016
9.	5 MLD S.T.P. at B. Puram Tehri	158	8.92	180	432	36	8.21	16	84	170	18.05.2016
10.	S.T.P. At THDC Koteshwar					34	7.42	19	76	140	18.05.2016
11.	S.T.P. at THDC Tehri					27	7.82	18	72	60	18.05.2016
12.	2 MLD S.T.P. at Gyansu	126	8.97	150	452	22	8.75	9.6	34	50	17.05.2016
13.	Alaknanda Hydro Project, Srinagar (Power House)	168	9.42	175	410	38	8.21	18	68	220	13.05.2016
14.	3.5 MLD S.T.P. Tapovan Rishikesh	134	8.68	170	480	42	7.54	14	48	110	09.05.2016

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		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	3 MLD S.T.P. at Swargashram, Rishikesh	137	8.6	170	480	16	7.46	9.6	36	110	28.03.2016
2.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	148	9.03	180	540	90	8.12	32	208	>1600	28.03.2016
3.	18 MLB S.T.P. at Jagjeetpur, Haridwar	127	7.65	170	412	12	7.37	10	42	80	28.03.2016
4.	18 MLD S.T.P. at Sarai, Haridwar	147	9.08	175	460	10	7.28	9.2	38	40	28.03.2016
5.	27 MLD S.T.P. at Jagjeetpur, Haridwar	158	9.15	180	418	11	7.42	10	42	60	28.03.2016
6.	68 MLD S.T.P. at Kargi Dehradun	162	9.36	175	472	18	7.62	10	42	60	29.03.2016
7.	S.T.P. at JP Powerventure, Joshimath	178	9.12	160	428	43	8.32	22	132	240	31.03.2016
8.	3.5 MLD S.T.P. at Srinagar	188	9.36	170	457	69	8.42	24	144	220	30.03.2016
9.	5 MLD S.T.P. at B. Puram Tehri	169	9.1	175	455	48	8.64	20	120	140	01.04.2016
10.	S.T.P. At THDC Koteshwar	158	8.75	170	457	39	7.67	22	134	170	01.04.2016
11.	S.T.P. at THDC Tehri	Sampling not available				47	7.59	19	118	50	01.04.2016
12.	2 MLD S.T.P. at Gyansu	147	8.96	140	425	19	8.29	10	38	30	01.04.2016
13.	05 MLD Sedimentation Tank-1, Nainital	378	7.42	190	478	256	7.41	170	388	≥1600	06.04.2016
14.	05 MLD Sedimentation Tank-2, Nainital					190	7.32	90	288	≥1600	06.04.2016
153.	Alaknanda Hydro Project, Srinagar (Power House)	216	9.38	170	486	Sampling not available				31.03.2016	
16.	S.T.P. at Alaknanda Hydro (Dam Site) Srinagar	218	9.42	190	811					31.03.2016	

Effluent Discharged Standards for Sewage Treatment Plant as directed by CPCB

Industry	Parameters	New
Sewage Treatment Plant	pH	6.5-9.0
	BOD	10
	COD	50
	TSS	20
	Fecal Coliform(MPN/100ml)	<100

Water Quality Characteristics of River Ganga & Its Tributaries																	
Monitoring Stations	Frequency of Monitoring	2014					2015					2016					D.B.U. Class
		Temp °C	pH	DO mg/L	BOD mg/L	Total Coliform MPN/100 mL	Temp °C	pH	DO mg/L	BOD mg/L	Total Coliform MPN/100 mL	Temp °C	pH	DO mg/L	BOD mg/L	Total Coliform MPN/100 mL	
		River Bhagirathi at Gangotri	Yearly	6	7.8	8.6	-	-	NA					5	7.64	9.2	
River Alaknanda B/C River Mandakini at, Rudraprayag	Quarterly	14.66 (10-19)	7.74 (7.58-8.2)	9.0 (7.8-10.2)	1.0 (0.6-1.4)	-	18.0 (17-19)	7.84 (7.737-9.6)	8.8 (8.4-9.2)	-	-	-	7.68 (7.48-7.86)	9 (8.4-9.4)	0	0	A
River Mandakini B/C River Alaknanda, at Rudraprayag	Quarterly	14.66 (11-18)	7.82 (7.4-8.24)	9.30 (8.6-9.6)	0.93 (0.6-1.2)	-	17.0 (16-18)	7.94 (7.9-7.96)	9.1 (9-9.2)	-	-	-	7.61 (7.42-7.86)	9.2 (8.6-9.6)	0	0	A
River Alaknanda A/C River Mandakini at Rudraprayag	Quarterly	15.66 (12-19)	7.84 (7.9-8.21)	8.73 (7.4-10)	1.26 (0.8-1.4)	-	18 (17-19)	8.01 (7.9-8.08)	7.8 (7.2-8.4)	-	-	17.5 (16-19)	7.78 (7.5-8.12)	8.65 (8.2-9)	-	-	A
River Bhagirathi B/C River ALaknanda at Devprayag	Quarterly	15.66 (12-19)	7.93 (7.67-8.2)	9.33 (7.8-10.8)	1.13 (0.6-1.4)	-	18.5 (18-19)	8.35 (8.21-8.5)	9.5 (9.4-9.6)	-	-	17.75 (17-19)	7.76 (7.61-7.89)	9.4 (9-9.6)	-	-	A
River Alaknanda B/C River Bhagirathi at Devprayag	Quarterly	15.66 (12-19)	7.84 (7.5-8.22)	8.73 (7.4-9.8)	1.26 (1-1.8)	-	18.5 (17-20)	8.07 (8.02-8.1)	8.7 (8.6-8.8)	-	-	17.75 (17-19)	7.62 (7.45-7.82)	8.95 (8.6-9.2)	-	-	A
River Alaknanda A/C River Bhagirathi, at Devprayag	Quarterly	15.66 (12-19)	7.84 (7.62-8.21)	8.73 (7.4-10)	1.26 (0.8-1.4)	-	18.5 (18-19)	8.02 (7.9-8)	8.7 (8.6-8.8)	-	-	17.5 (17-18)	7.60 (7.5-7.62)	9.25 (8.8-9.6)	-	-	A
River Ganga U/S Lakshmanjhula at Rishikesh	Monthly	16.25 (11-20)	7.68 (7.31-7.97)	8.76 (7.4-9.4)	1.01 (0.8-1.4)	16.9 (0-40)	18.41 (14-21)	7.59 (7.12-7.82)	9.9 (8.6-11.2)	-	11.9 (0-22)	18 (16-20)	7.41 (7.12-7.82)	9.78 (9-10.6)	-	25 (12-40)	A
Upper Ganga Canal D/S Har-ki -Pauri at Haridwar	Monthly	18.16 (14-22)	7.68 (7.6-7.86)	8.3 (7.8-9.0)	1.73 (1.4-2.2)	90.16 (26-170)	19.45 (15-21)	7.91 (7.5-8.49)	9.0 (8-10)	1.22 (1-1.6)	34 (22-60)	17.90 (15-20)	7.47 (7.34-7.69)	9.49 (8.4-10.8)	1.02 (<1-1.2)	85.45 (50-170)	B
Upper Ganga Canal D/S Roorkee at Haridwar	Monthly	17.95 (13.5-20)	7.69 (7.1-8.09)	7.83 (7.2-8.8)	2.1 (1.2-2.6)	179.16 (80-350)	19.1 (14-22)	7.96 (7.3-8.5)	12 (7.8-10.6)	1.34 (0.8-1.8)	131.6 (60-350)	18.27 (15-20)	7.67 (7.6-7.84)	9.47 (7.6-10.4)	1.05 (1-1.2)	146.36 (80-220)	B
River Ganga after confluence of river Song near Satyanarayan Temple D/S Raiwala at Dehradun	Monthly	20 (14-25)	7.79 (7.5-8.7)	6.8 (6.2-7.6)	5.6 (1.4-12)	-	19.63 (14-22)	7.6 (7.4-7.86)	8.21 (7.6-8.8)	1.4 (1-1.8)	320 (220-500)	18.66 (15-21)	0	8.66 (7.6-9.6)	1.08 (1-1.4)	222.5 (80-500)	D

River Suswa D/S Mathurawala at Dehradun	Monthly	22.33 (15-28)	7.58 (7.42-7.6)	2.98 (1-6)	33.08 (9-48)	-	19.9 (14-23)	7.8 (7.6-8.1)	3.01 (1-5.6)	26.54 (12-40)	-	18.91 (16-21)	7.80 (7.66-7.96)	2.65 (1.4-3.6)	33 (28-36)	-	E
Upper Ganag Canal at Harki Pauri, Haridwar (Rishikul Bridge)	Monthly	-	-	-	-	-	19.75 (15-22.5)	7.93 (7.73-8.65)	8.88 (8-10)	1.16 (1-1.6)	31.33 (22-40)	18.18 (16-20)	7.51 (7.36-7.83)	9.21 (8.6-10.8)	0	61.81 (40-110)	A
Upper River Ganga Canal at Harki Pauri, Haridwar (Damkoti)	Monthly	-	-	-	-	-	19.25 (15-22)	7.79 (7.46-8.1)	9 (8-11.2)	-	38 (22-70)	18.09 (16-20)	7.54 (7.42-7.75)	9.56 (8.4-10.8)	0	68.18 (50-90)	B
River Ganga U/s Abindughat, Dudhiyabad, Haridwar	Monthly	-	-	-	-	-	19.59 (15-23)	7.94 (7.7-8.31)	8.89 (6-11)	-	51.6 (30-70)	18.66 (16-21)	7.66 (7.52-8.01)	9.05 (8.4-10)	0	56.66 (30-90)	B
Upper Ganga Canal D/s Balkumari Mandir, Ajeetpur, Haridwar	Monthly	-	-	-	-	-	19.40 (14-22.5)	7.97 (7.36-8.45)	9.34 (8.2-11.6)	1.32 (1-1.8)	600 (300-900)	18.33 (15-21)	7.67 (7.46-7.82)	9.26 (8.2-10.6)	1.1 (1-1.4)	245.83 (90-500)	C
Upper Ganag Canal at Lal Tao Bridge, Haridwar	Monthly	-	-	-	-	-	19.45 (15-22)	7.87 (7.21-8.5)	8.7 (8-10)	1 (>1-1)	60 (50-80)	18.27 (16-20)	7.63 (7.2-7.85)	9.18 (8.2-10.6)	0	85.45 (60-140)	B
River Yamuna U/s Dakpathar	Quarterly	17.33 (14-21)	8.08 (8.12-8.7)	7.66 (6.6-8.4)	1.6 (1.2-1.6)	9.33 (0-17)	-	-	-	-	-	18.5 (17-20)	7.82 (7.64-7.9)	8.45 (8-8.6)	1.15 (1-1.4)	45 (3-60)	A
River Yamuna U/s Lakhwar Dam	Quarterly	17.33 (13-21)	8.17 (8.01-8.3)	6.6 (4.2-8.6)	1.26 (0.8-1.8)	0.66 (0-2)	-	-	-	-	-	18.25 (16-19)	7.8 (7.65-8.2)	8.7 (8.2-9.2)	-	-	A
River Yamuna U/s Yamnotri	Yearly	3	7.6	8.4	-	-	-	-	-	-	-	-	-	-	-	-	A
Yamuna U/s Syanchati	Yearly	7	7.8	8.6	-	-	-	-	-	-	-	6	7.5	8.8	-	-	A
River Kosi, Bazpur Road, Kashipur, Udham Singh Nagar	Monthly	21.9 (7-32)	7.1 (6.9-7.3)	7.9 (7-8.6)	6.8 (1.2-18)	-	25 (12-32)	7.13 (7-7.3)	6.89 (6-8.4)	5.61 (2-10.6)	-	24.62 (13-32)	7.41 (7.2-8.1)	6.4 (5.2-6.8)	3.87 (2.4-6)	-	B
River Dhella U/s Moradabad Road, Kashipur, Udham Singh Nagar	Monthly	23.5 (7-34)	7.2 (6.9-7.3)	2.4 (0-3.8)	37.5 (10-64)	-	24.4 (12-33)	7.22 (7-7.4)	5.24 (4.8-6.6)	9.24 (6-22)	-	23 (14-31)	7.38 (7.2-7.6)	5.22 (3.6-8.8)	6.31 (3.2-8.4)	-	E
River Dhella D/s Aliganj, Thakurdwara	Monthly	23.3 (9-34)	7.3 (6.4-7.5)	1.5 (0-3.4)	29.7 (18-42)	-	26.45 (12-34)	7.4 (7.3-7.6)	1.64 (0-4)	31.84 (12-56)	-	24.9 (13-28.2)	7.62 (7.4-8.3)	2.05 (0.6-8.2)	37 (12-80)	-	E
River Bhella U/s Ramnagar Road, Kashipur, Udham Singh Nagar	Monthly	19.22 (9-33)	7.07 (6.8-7.2)	2.24 (2.2-3.4)	19.22 (10-32)	-	24.15 (12-32)	7.12 (7-7.2)	6.28 (2.6-8.2)	6.68 (4-10.6)	-	23.77 (14-32)	7.25 (7-7.6)	6.55 (5.2-8.2)	3.85 (3.2-4.6)	-	E
River Bhella D/s Lohiya Bridge, Kashipur, Udham Singh Nagar	Monthly	24.18 (9-34)	6.8 (6-7.1)	0.64 (0-1.6)	41.3 (12-84)	-	25.92 (12-33.2)	6.98 (6.8-7.1)	0.30 (0-1.2)	47.46 (16-146)	-	25.12 (14-32)	7.20 (6.8-7.6)	0.2 (0-0.8)	47 (38-76)	-	E

River Pilkhar after Bilaspur, Udham Singh Naggar	Monthly	26.2 (0-33.7)	7.3 (7.1-7.4)	4.8 (0-6.2)	6.3 (3.2-10)	-	25.81 (12-34)	7.43 (7.3-7.6)	5.72 (5-6.2)	6.09 (3-12)	-	26.9 (15-32)	7.59 (7.2-8.5)	5.92 (4.8-8.4)	5.8 (4-8)	-	E
River Nandour U/s Sitarganj, Udham Singh Nagar	Monnthly	23 (0-30)	7 (7-7.2)	8.4 (8.2-8.6)	2 (1.6-2.6)	-	23.5 (11-33)	7.08 (7-7.2)	7.4 (6.2-8.6)	3.64 (1.4-5.4)	-	28 (26-30)	7.13 (7.1-7.2)	6.9 (6.4-8)	3.1 (3-3.2)	-	E
River Nandour D/s Sitarganj, Udham Singh Nagar	Monthly	22.2 (0-26)	7.2 (7.1-7.3)	8.1 (0-8.6)	3.9 (1.6-6.4)	-	23.8 (12-33)	7.16 (7.1-7.2)	7.0 (6-8.2)	4.44 (2.2-5.8)	-	26 (16-32)	7.52 (7.2-8)	6.3 (3.4-9.2)	5.17 (3-13.2)	-	E
River Kichha U/s Nagarblla, Kashipur, Udham Singh Nagar	Monthly	26.8 (0-37.6)	7.3 (7.2-7.4)	3.7 (0.4-4.8)	15.6 (3.8-26)	-	26.61 (12-33.4)	7.39 (7.3-7.5)	3.50 (0.6-4.6)	11.87 (7.8-24)	-	25.5 (15-32)	7.58 (7.3-8.1)	4.2 (3.3-5.2)	20 (10-30)	-	E
Nainital Lake Water Intake	Monthly	16 (9-20)	7.7 (7.6-8.11)	7.5 (7.7-8)	1.54 (1.2-1.8)	-	12.66 (11-17)	7.46 (7.2-7.8)	7.35 (7-7.6)	1.58 (1.4-1.8)	-	12.4 (9-18)	7.7 (7.4-7.9)	7.4 (7.2-7.8)	1.47 (1.2-1.8)	-	E
Bheemtal Lake, Nainital	Monthly	17.1 (11-21)	7.6 (7.437.9)	7.8 (7.4-8.2)	1.3 (1-1.8)	-	12.75 (9-18)	7.60 (7.4-7.9)	7.55 (7.2-8.2)	1.41 (1.2-1.8)	-	12.5 (10-17)	7.6 (7.2-7.9)	7.5 (7.2-7.8)	1.32 (1-1.6)	-	E
River Gola, Nainital	Monthly	16.5 (11-19)	7.6 (7.4-7.8)	7.4 (6.8-7.8)	1.3 (1.2-1.6)	-	14.58 (10-21)	7.67 (7.4-7.9)	7.51 (7-7.9)	1.36 (1.2-1.6)	-	14.1 (11-20)	7.5 (7.2-7.8)	7.41 (7-7.8)	1.42 (1-1.6)	-	E
Kalyani River U/s Pantnagar, Industrial Area (Started from May)	Monthly	-	-	-	-	-	-	-	-	-	-	24.85 (14-30)	7.27 (7.1-7.9)	7.57 (7.2-8.4)	2.45 (2.2-2.8)	-	E
Kalyani River D/s Pantnagar, Industrial Area (Started from May)	Monthly	-	-	-	-	-	-	-	-	-	-	25.71 (14-32)	7.50 (7.3-7.6)	4.34 (3.2-6)	9.14 (10-8.8)	-	E

Effluent Characteristics Report of STP

S.No.	Name of the Treatment Plant	Sampling Point									Sampling Date
		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	S.T.P. at JP Power venture, Joshimath	170	8.65	180	372	35	7.56	14	90	350	28.12.2017
2.	3.5 MLD S.T.P. at Srinagar	172	8.76	170	380	44	7.96	16	92	300	27.12.2017
3.	Alaknanda Hydro Project, Srinagar (Power House)	Sample not found				26	7.65	14	86	280	27.12.2017
4.	STP at Alkananda Hydro Project, Srinagar (Power House)	188	8.68	160	412	48	7.68	16	84	300	27.12.2017
5.	1.4 MLD S.T.P. Devprayag, Tehri Garhwal	Sample not found				38	7.82	12	88	220	27.12.2017
6.	20 MLD STP at Mothurawala	156	8.45	160	432	19	7.35	12	44	300	16.01.2017
7.	68 MLD STP at Kargi, Dehradun	164	8.71	175	440	14	7.29	10	46	280	12.01.2017
8.	3 MLD S.T.P. at Swargashram, Rishikesh	198	8.75	176	408	10	7.38	10	46	130	10.01.2018
9..	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	178	8.92	190	410	62	7.65	32	168	>1600	10.01.2018
10.	18 MLD S.T.P. at Jagjeetpur, Haridwar	180	8.82	190	428	12	7.89	12	42	140	24.01.2018
11.	18 MLD S.T.P. at Sarai, Haridwar	186	8.7	180	386	10	7.81	10	42	90	25.01.2018
12.	27 MLD S.T.P. at Jagjeetpur, Haridwar	194	8.64	185	392	10	7.80	10	46	130	25.01.2018
13.	3.5 MLD STP Tapovan, Rishikesh	182	8.82	175	398	10	7.48	10	42	170	10.01.2018

New Effluent Discharged Standards for Sewage Treatment Plant as notified under E(P) Rules, 1986 (G.S.R. 1265 E dated 13 October, 2017)

Industry	Parameters	Value
Sewage Treatment Plant	pH	6.5-9.0
	BOD	30
	TSS	<50
	Fecal Coliform(MPN/100ml)	<1000

Effluent Characteristics Report of STP

S.No.	Name of the Treatment Plant	Sampling Point									Sampling Date
		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	0.26 MLD STP at Badrinath	Sample not collected due to bad weather conditions.									05.07.2018
2.	0.075 MLD STP at Devprayag										
3.	0.150 MLD STP at Devprayag										
4.	0.42 MLD STP at Vijay Colony, Dehradun	174	8.12	160	318	38	7.72	16	48	300	18.06.2018
5.	0.72 MLD STP at Salawala, Dehradun	160	8.07	165	284	32	7.68	14	44	280	18.06.2018
6.	5 MLD ST at Bhagirathipuram, Tehri Garhwal	Sample not collected due to bad weather conditions.									05.07.2018
7.	2 MLD STP at Gyansu, Uttarkashi										
8.	1 MLD STP at Gangotri, Uttarkashi										
9.	1.4 MLD S.T.P. Devprayag, Tehri Garhwal										
10.	20 MLD STP at Mothurawala	170	7.98	175	364	24	7.46	12	38	220	18.06.2018
11.	68 MLD STP at Kargi, Dehradun	172	7.78	165	376	18	7.61	10	42	170	18.06.2018
12.	3.5 MLD STP Tapovan, Rishikesh	176	8.1	160	372	27	7.68	12	34	240	14.06.2018
13.	3 MLD S.T.P. at Swargashram, Rishikesh	164	7.92	175	380	23	7.63	9.6	32	220	14.06.2018
14.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	180	7.96	170	384	58	7.74	34	166	>1600	14.06.2018
15.	3.5 MLD STP at Srinagar	172	7.84	165	312	44	7.68	18	76	300	05.07.2018
16.	18 MLD S.T.P. at Jagjeetpur, Haridwar	164	7.8	160	344	22	7.74	10	38	140	13.06.2018
17.	18 MLD S.T.P. at Sarai, Haridwar	168	7.83	165	384	26	7.72	9.2	34	170	13.06.2018
18.	27 MLD S.T.P. at Jagjeetpur, Haridwar	174	7.98	170	376	24	7.52	12	42	280	13.06.2018

Effluent Characteristics Report of STP

S.No.	Name of the Treatment Plant	Sampling Point									Sampling Date
		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	0.26 MLD STP at Badrinath	146	6.82	140	288	34	7.21	14	58	220	12.07.2018
2.	3.5 MLD S.T.P. at Srinagar	172	7.84	165	312	44	7.68	18	76	300	05.07.2018
3.	0.075 MLD STP at Devprayag	164	6.92	170	340	48	7.62	22	86	280	12.07.2018
4.	0.150 MLD STP at Devprayag	174	6.85	165	360	42	7.38	20	84	500	12.07.2018
5.	1.4 MLD S.T.P. Devprayag, Tehri Garhwal	178	6.87	160	322	38	7.24	18	62	350	12.07.2018
6.	3.5 MLD STP Tapovan, Rishikesh	176	8.1	160	372	27	7.68	12	34	240	14.06.2018
7.	3 MLD S.T.P. at Swargashram, Rishikesh	164	7.92	175	380	23	7.63	9.6	32	220	14.06.2018
8.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	180	7.96	170	384	58	7.74	34	166	>1600	14.06.2018
9.	20 MLD STP at Mothurawala	170	7.98	175	364	24	7.46	12	38	220	18.06.2018
10.	68 MLD STP at Kargi, Dehradun	172	7.78	165	376	18	7.61	10	42	170	18.06.2018
11.	0.42 MLD STP at Vijay Colony, Dehradun	174	8.12	160	318	38	7.72	16	48	300	18.06.2018
12.	0.72 MLD STP at Salawala, Dehradun	160	8.07	165	284	32	7.68	14	44	280	18.06.2018
13.	27 MLD S.T.P. at Jagjeetpur, Haridwar	174	7.98	170	376	24	7.52	12	42	280	13.06.2018
14.	18 MLD S.T.P. at Jagjeetpur, Haridwar	164	7.8	160	344	22	7.74	10	38	140	13.06.2018
15.	18 MLD S.T.P. at Sarai, Haridwar	168	7.83	165	384	26	7.72	9.2	34	170	13.06.2018
16.	5 MLD ST at Bhagirathipuram, Tehri Garhwal	170	8.07	165	328	38	7.35	16	62	240	12.07.2018
17.	2 MLD STP at Gyansu, Uttarkashi	175	6.85	160	376	40	7.48	18	78	220	12.07.2018
18.	1 MLD STP at Gangotri, Uttarkashi	168	7.79	155	334	44	7.21	16	64	280	12.07.2018

New Effluent Discharged Standards for Sewage Treatment Plant as notified under E(P) Rules, 1986 (G.S.R. 1265 E dated 13 October, 2017)

Industry	Parameters	Value
Sewage Treatment Plant	pH	6.5-9.0
	BOD	30
	TSS	<100
	Fecal Coliform(MPN/100ml)	<1000

Effluent Characteristics Report of STP

S.No.	Name of the Treatment Plant	Sampling Point									Sampling Date
		Inlet of STP				Outlet of STP					
		TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	TSS (mg/L)	pH	BOD (mg/L)	COD (mg/L)	FC MPN per 100ml	
1.	0.26 MLD STP at Badrinath										
2.	3.5 MLD S.T.P. at Srinagar	166	7.52	170	340	38	7.45	20	86	350	08.08.2018
3.	0.075 MLD STP at Devprayag	172	6.85	160	318	40	7.54	24	120	300	08.08.2018
4.	0.150 MLD STP at Devprayag	162	6.72	170	324	48	7.68	22	86	350	08.08.2018
5.	1.4 MLD S.T.P. Devprayag, Tehri Garhwal	168	6.76	165	368	47	7.28	22	92	500	08.08.2018
6.	3.5 MLD STP Tapovan, Rishikesh	164	6.78	165	362	18	7.41	10	38	280	06.08.2018
7.	3 MLD S.T.P. at Swargashram, Rishikesh	170	6.86	160	348	16	7.28	10	42	170	06.08.2018
8.	6 MLD Oxidation Pond, Lakkarghat, Rishikesh	170	7.89	160	372	54	7.68	32	154	>1600	06.08.2018
9.	20 MLD STP at Mothurawala	162	6.94	165	318	18	7.38	14	42	280	01.08.2018
10.	68 MLD STP at Kargi, Dehradun	168	6.85	160	348	14	7.52	10.4	38	220	01.08.2018
11.	0.42 MLD STP at Vijay Colony, Dehradun	164	6.88	170	342	36	7.62	18	56	350	01.08.2018
12.	0.72 MLD STP at Salawala, Dehradun	170	6.84	160	312	38	7.58	16	48	300	01.08.2018
13.	27 MLD S.T.P. at Jagjeetpur, Haridwar	162	6.91	165	348	18	7.24	10.4	38	300	01.08.2018
14.	18 MLD S.T.P. at Jagjeetpur, Haridwar	168	6.82	170	362	14	7.65	12	42	170	01.08.2018
15.	18 MLD S.T.P. at Sarai, Haridwar	158	6.87	160	346	12	7.24	9.6	36	110	01.08.2018
16.	5 MLD ST at Bhagirathipuram, Tehri Garhwal	164	8.20	170	356	44	7.51	18	76	280	10.08.2018
17.	2 MLD STP at Gyansu, Uttarkashi	168	6.92	165	320	42	7.62	20	82	300	10.08.2018
18.	1 MLD STP at Gangotri, Uttarkashi	170	7.81	160	342	46	7.25	18	72	220	11.08.2018

New Effluent Discharged Standards for Sewage Treatment Plant as notified under E(P) Rules, 1986 (G.S.R. 1265 E dated 13 October, 2017)

Industry	Parameters	Value
Sewage Treatment Plant	pH	6.5-9.0
	BOD	30
	TSS	<100
	Fecal Coliform(MPN/100ml)	<1000