

**Water Quality Characteristics of Sewage Treatment Plant (STP) during the Year 2018**

S.N.	STP	Parameters	Month												
			January	February	March	April	May	June	July	August	September	October	November	December	
1.	27 MLD STP Jagjeetpur Haridwar (outlet)	Color	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless			
		Odor	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless			
		pH	7.80	7.71	7.38	7.45	7.21	7.99	7.34	7.24	7.77				
		TSS (mg/L)	10	12	15	12	10	24	16	18	14				
		TDS (mg/L)	278	266	272	244	228	355	272	268	281				
		TS (mg/L)	288	178	287	256	238	379	288	286	295				
		BOD (mg/L)	10	8.8	12	9.6	9.2	12	10	10.4	12				
		COD(mg/L)	46	36	42	34	32	42	36	38	44				
2.	18 MLD STP Jagjeetpur Haridwar (outlet)	Color	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless			
		Odor	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless			
		pH	7.89	7.42	7.62	7.38	7.25	8.18	7.35	7.65	7.75				
		TSS (mg/L)	12	16	18	16	14	22	12	14	18				
		TDS (mg/L)	264	278	286	262	238	347	264	258	249				
		TS (mg/L)	276	294	304	278	252	369	276	272	267				
		BOD (mg/L)	12	10	14	10	11.2	10	10.4	12	10				
		COD(mg/L)	42	36	44	38	36	38	34	42	38				
3.	06 MLD Oxidation Pond Lakarghat Rishikesh (outlet)	Color	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid			
		Odor	Unpleasant	Unpleasant	Unpleasant	Unpleasant	Not Specific	Not Specific	Not Specific	Not Specific	Not Specific	Not Specific			
		pH	7.65	7.80	7.68	7.74	7.65	7.74	7.67	7.68	7.83				
		TSS (mg/L)	62	58	64	74	56	58	54	54	58				
		TDS (mg/L)	386	347	344	378	358	326	318	298	312				
		TS (mg/L)	448	405	408	452	414	384	372	352	370				
		BOD (mg/L)	32	34	36	32	32	34	32	32	34				
		COD(mg/L)	168	162	168	136	160	166	158	154	136				
4.	03 MLD STP Swargashram Rishikesh	Color	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless			
		Odor	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless			
		pH	7.38	7.48	7.45	7.38	7.36	7.63	7.38	7.28	7.35				
		TSS (mg/L)	10	16	14	14	12	23	14	16	18				

	<b>(outlet)</b>	<b>TDS (mg/L)</b>	288	310	218	228	234	278	268	258	262			
		<b>TS (mg/L)</b>	298	326	232	242	246	301	282	274	280			
		<b>BOD (mg/L)</b>	10	8	12	10.4	10.4	9.6	10.4	10	10.8			
		<b>COD(mg/L)</b>	46	32	38	36	36	32	36	42	42			
5.	<b>Mixing Point of both STP27 &amp; 18 MLD STP, Jagjeetpur, Hairdwar</b>	<b>Color</b>	Turbid	Turbid	Turbid	Turbid		Turbid	Turbid	Turbid	Turbid			
		<b>Odor</b>	Not Specific	Not Specific	Not Specific	Not Specific		Not Specific	Not Specific	Not Specific	Not Specific			
		<b>pH</b>	7.80	7.86	7.91	7.82		7.65	7.68	7.58	7.50			
		<b>TSS (mg/L)</b>	62	70	66	72		57	62	58	53			
		<b>TDS (mg/L)</b>	386	412	396	378		346	312	348	320			
		<b>TS (mg/L)</b>	448	482	462	450		403	374	406	373			
		<b>BOD (mg/L)</b>	30	34	32	34		32	30	32	34			
		<b>COD(mg/L)</b>	124	146	138	144		152	146	160	154			
6.	<b>18 MLD STP, Vill-Sarai, Jwalapur, Haridwar</b>	<b>Color</b>	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless			
		<b>Odor</b>	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless			
		<b>pH</b>	7.81	7.68	7.58	7.42	7.32	7.95	7.36	7.24	7.15			
		<b>TSS (mg/L)</b>	10	14	16	18	16	26	10	12	10			
		<b>TDS (mg/L)</b>	228	242	238	244	236	394	228	234	232			
		<b>TS (mg/L)</b>	238	256	254	262	252	420	238	246	242			
		<b>BOD (mg/L)</b>	10	12	13	10	10	9.2	8.8	9.6	9.2			
		<b>COD(mg/L)</b>	42	44	42	38	38	34	32	36	34			
7.	<b>M/s 3.5, M LD STP Tapovan Rishikesh</b>	<b>Color</b>	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless			
		<b>Odor</b>	Odorless	Odorless	Odorless	Odorless	Odourless	Odorless	Odorless	Odorless	Odorless			
		<b>pH</b>	7.48	7.65	7.42	7.58	7.32	7.68	7.42	7.41	7.56			
		<b>TSS (mg/L)</b>	10	15	18	14	18	27	16	18	23			
		<b>TDS (mg/L)</b>	264	282	210	232	244	266	257	277	284			
		<b>TS (mg/L)</b>	274	297	228	246	262	293	273	295	307			
		<b>BOD (mg/L)</b>	10	12	14	10	14	12	10	10	12			
		<b>COD(mg/L)</b>	42	36	46	38	42	34	32	38	40			

### EFFLUENT DISCHARGED STANDARDS FOR SEWAGE TREATMENT PLANT

S.NO.	Parameters	Parameters Limit (Standards for New STPs Design after notification date)
1.	pH	6.5-9.0
2.	BOD (mg/L)	Not more than 10
3.	COD (mg/L)	Not more than 50
4.	TSS (mg/L)	Not more than 20
5.	NH-4 (mg/L)	Not more than 5
6.	N-Total (mg/L)	Not more than 10
7.	Fecal Coliform (MPN/100ml)	Less than 100

**Note:**

(i) These standards will be applicable for discharge in water resources as well as for land disposal. The standards for Fecal Coliform may not be applied for use of treated sewage in industrial purposes.

(ii) \* Achievement of Standards for existing STPs within 02 years from the date of notification.