

Water Quality Characteristics of Sewage Treatment Plant (STP) during the Year 2016

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					
		Odor	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless						
		pH	8.32	7.42	7.36	7.32	7.42	7.64						
		TSS (mg/L)	56	25	18	10	11	11						
		TDS (mg/L)	332	376	344	352	422	343						
		TS (mg/L)	388	701	362	362	433	354						
		BOD (mg/L)	18	13.2	11.6	10	9.6	9						
		COD(mg/L)	76	46	42	44	38	34						
2.	18 MLD STP Jagjeetpur Haridwar (outlet)	Color	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless						
		Odor	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless						
		pH	7.74	7.64	7.35	7.35	7.38	7.41						
		TSS (mg/L)	55	27	22	10	9	10						
		TDS (mg/L)	331	371	342	352	483	339						
		TS (mg/L)	386	398	364	362	492	349						
		BOD (mg/L)	15	12.8	11.2	9.6	9.2	8.5						
		COD(mg/L)	60	48	44	38	32	30						
3.	06 MLD Oxidation Pond Lakarghat Rishikesh (outlet)	Color	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid						
		Odor	Unpleasant	Odorless	Odorless	Unpleasant	Unpleasant	Unpleasant						
		pH	8.24	8.24	8.12	7.98	7.78	7.88						
		TSS (mg/L)	88	78	84	92	78	85						
		TDS (mg/L)	478	409	388	566	392	479						
		TS (mg/L)	566	487	472	658	470	564						
		BOD (mg/L)	36	34	32	34	32	33						
		COD(mg/L)	238	218	210	218	214	216						

4.	03 MLD STP Swargashram Rishikesh (outlet)	Color	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless							
		Odor	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless							
		pH	7.62	7.62	7.42	7.52	7.42	7.47							
		TSS (mg/L)	42	23	18	14	10	12							
		TDS (mg/L)	227	260	272	318	264	289							
		TS (mg/L)	269	283	290	332	274	301							
		BOD (mg/L)	15	12	11.2	9.6	9.6	9							
		COD(mg/L)	56	44	38	36	38	34							
5.	Mixing Point of both STP27 & 18 MLD STP, Jagjeetpur, Hairdwar	Color	Colourless	Turbid	Turbid	Turbid	Colourless	Colourless							
		Odor	Not Specific	Unpleasant	Unpleasant	Unpleasant	Odorless	No Sp Od							
		pH	8.23	8.26	8.31	8.24	7.98	7.82							
		TSS (mg/L)	68	74	79	76	86	74							
		TDS (mg/L)	353	506	478	466	545	376							
		TS (mg/L)	421	580	557	542	631	450							
		BOD (mg/L)	36	32	34	32	34	32							
		COD(mg/L)	258	224	228	218	224	218							
6.	18 MLD STP, Vill-Sarai, Jwalapur, Haridwar	Color	Colourless	Colourless	Colourless	Colourless	Colourless	Colourless							
		Odor	Odorless	Odorless	Odorless	Odorless	Odorless	Odorless							
		pH	8.26	7.36	7.24	7.26	7.23	7.31							
		TSS (mg/L)	72	24	19	11	10	9							
		TDS (mg/L)	466	448	360	348	448	443							
		TS (mg/L)	538	472	379	359	458	452							
		BOD (mg/L)	22	12	10.4	9.2	9.6	8.8							
		COD(mg/L)	86	42	42	36	34	32							

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.