

## GENERAL EFFLUENT STANDARDS

Schedule - VI, Part A, GSR 801(E) dt. 3 1.12.93.

Parameter	Unit	Standards			
		Inland surface water	Public sewer	Land for irrigation	Marine coastal areas
1. Colour and odour	-	All efforts should be made to remove colour and unpleasant odour as far as practicable.	-	All efforts should be made to remove colour and unpleasant odour as far as practicable.	All efforts should be made to remove colour and unpleasant odour as far as practicable.
2. Suspended solids	mg/l, max	100	600	200	a) For process effluent—100 b) For cooling water - 10 percent above total suspended matter of influent
3. Particle size of Suspended solids	-	Shall pass 850 micron IS sieve	-	-	a) Floatable solids—max. 3 mm b) Settleable solids—max. 850 µm.
4. pH	-	5.5 to 9	5.5 to 9	5.5 to 9	5.5 to 9
5. Temperature	°C, max.	Shall not exceed 5 °C above the receiving water temperature	-	-	Shall not exceed 5 °C above the receiving water temperature
6. Oil and grease	mg/l, max	10	20	10	20
7. Total residual chlorine	mg/l, max	1	-	-	1
8. Ammoniacal nitrogen (as N)	mg/l, max	50	50	-	50
9. Total kjeldahl nitrogen (as N)	mg/l, max	100	-	-	100
10. Free ammonia (as NH <sub>3</sub> )	mg/l, max	5	-	-	5
11. Biochemical Oxygen Demand(3 days at 27° C)	mg/l, max	30	350	100	100
12. Chemical oxygen demand	mg/l, max	250	-	-	250
13. Arsenic (as As)	mg/l, max	0.2	0.2	0.2	0.2

14.	Mercury (as Hg)	mg/l, max	0.01	0.01	-	0.01
15.	Lead (as Pb)	mg/l, max	0.1	1	-	2
16.	Cadmium (as Cd)	mg/l, max	2	1	-	2
17.	Hexavalent chromium (as Cr <sup>+6</sup> )	mg/l, max	0.1	2	-	1
18.	Total chromium (as Cr)	mg/l, max	2	2	-	2
19.	Copper (as Cu)	mg/l, max	3	3	-	3
20.	Zinc (as Zn)	mg/l, max	5	15	-	15
21.	Selenium (as Se)	mg/l, max	0.05	0.05	-	0.05
22.	Nickel (as Ni)	mg/l, max	3	3	-	5
23.	Cyanides (as CN)	mg/l, max	0.2	2	0.2	0.2
24.	Fluorides (as F)	mg/l, max	2	15	-	15
25.	Dissolved Phosphates (as P)	mg/l, max	5	-	-	
26.	Sulphides (as S)	mg/l, max	2	-	-	5
27.	Phenolic compounds(as C <sub>6</sub> H <sub>5</sub> OH)	mg/l, max	1	5	-	5
28.	Radioactive materials: a) Alpha emitters b) Beta emitters	Micro curie/ml, max.	10 <sup>-7</sup> 10 <sup>-6</sup>	10 <sup>-7</sup> 10 <sup>-6</sup>	10 <sup>-8</sup> 10 <sup>-7</sup>	10 <sup>-7</sup> 10 <sup>-6</sup>
29.	Bioassay test	-	90 % survival of fish after 96 h in 100 % effluent	90 % survival of fish after 96 h in 100 % effluent	90 % survival of fish after 96 h in 100 % effluent	90 % survival of fish after 96 h in 100 % effluent
30.	Manganese (as Mn)	mg/l, max	2	2	-	2
31.	Iron (as Fe)	mg/l, max	3	3	-	3
32.	Vanadium (as V)	mg/l, max	0.2	0.2	-	0.2
33.	Nitrate nitrogen (as N)	mg/l, max	10	-	-	20