

Environmental Standards

Effluent

THERMAL POWER PLANT : STANDARDS FOR LIQUID EFFLUENTS

Source	Parameter	Concentration not to exceed, mg/l (except for pH & Temp.)		
Condenser Cooling Water (once through higher cooling system)	pH	6.5 to 8.5		
	Temperature*	Not more than 5oC than the higher intake		
Boiler Blowdown	Free available Chlorine	0.5		
	Suspended solids	100		
	Oil & grease	20		
	Copper (Total)	1.0		
	Iron (Total)	1.0		
Cooling Tower Blowdown	Free available Chlorine			
	Zinc	1.0		
	Chromium (Total)	0.2		
	Phosphate	5.0		
	Other corrosion inhibiting materialon	Limit to be established on case by case basis by Central Board in case of Union Territories and State Boards in case of States		
As pond effluent	pH	6.5	to	8.5
	Suspended solids	100		
	Oil & grease	20		

* Limit has been revised, please see new limit at Sr. No. 66C of the document

**Source : EPA Notification
[S.O. 844(E), dt 19th Nov; 1996]**

Thermal Power Plant : Emission Standards

Generation Capacity	Pollutant	Emission limit
Generation capacity 210 MW or more	Particulate matter	150 mg/Nm ³
Generation capacity less than 210 MW	Particulate matter	300 mg/Nm ³

* Depending upon the requirement of local situation, such as protected area, the State Pollution Control Boards and other implementing agencies under the Environment (Protection) Act, 1986, may prescribe a limit of 150 mg/Nm³, irrespective of generation capacity of the plant.

Thermal Power Plants : Stack Height/Limits

Generation Capacity	Stack Height (Metres)
500 MW and above	275
200 MW/210 MW and above to less than 500 MW	220

Less than 200 MW/210 MW

$H = 14 Q^{0.3}$ where Q is emission rate of SO₂ in kg/hr, and H is Stack height in metres.

**Source : EPA Notification
[G.S.R. 742(E), dt. 30th Aug; 1990]**