

The hazardous waste incinerator shall have an emission limit from the discharge stack to atmosphere of less than or equal to:

<b>Sr. No.</b>	<b>Parameters</b>	<b>Permissible Limit</b>
1	Particulates	50 mg/Nm <sup>3</sup>
2	Hydrochloric Acid	50 mg/Nm <sup>3</sup>
3	Sulphur Dioxide	200 mg/Nm <sup>3</sup>
4	Total Organic Carbon	100 mg/Nm <sup>3</sup>
5	HF	20 mg/Nm <sup>3</sup>
6	Oxides of Nitrogen	4 mg/Nm <sup>3</sup>
7	Hydrocarbons (as propane)	400 mg/Nm <sup>3</sup>
8	Dioxin/Furans	10 ppm
9	Cd +Th (and its compounds)	0.1 ng TEQ/Nm <sup>3</sup>
10	Hg (and its compounds)	0.05 mg/Nm <sup>3</sup>
11	Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V (& their compounds)	0.5 mg/Nm <sup>3</sup>
<p>⇒ All values corrected to 10 % oxygen on a dry basis.</p> <p>⇒ Combustion efficiency shall be at least 99.9 %.</p> <p>⇒ The system shall have a visible emission rate of less than or equal to 10% except for condensed water vapor from the discharge stack to atmosphere.</p> <p>⇒ Temperature of primary chamber shall be at least 850 °C.</p> <p>⇒ Secondary chamber gas residence time shall be at least two seconds at 1100 °C with 3 % oxygen in the stack gas.</p> <p>⇒ Destruction and removal efficiency for each principal organic hazardous constituent in the waste feed shall be at least 99.99% and for PCBs, PCTs and other chlorinated compounds shall be 99.9999%.</p> <p>⇒ The Total Organic Carbon (TOC) content of the slag and bottom ashes is to be less than 3% or their loss on ignition is less than 5% of the dry weight of the material.</p> <p>⇒ The Air Pollution Control Device shall comprise (singly or in combination) of (i) Waste heat boiler/heat exchanger/quench, (ii) Bag filters/ESP/Cyclone and (iii) Dry/wet scrubber with hydrated lime or sodium hydroxide injection and of chimney/stack of minimum 30 mtr. Height.</p> <p>⇒ Continuous monitoring and recording system for opacity, CO, SO<sub>2</sub> and NO<sub>x</sub> shall be installed and report shall be sent to PCC on regular basis.</p>		