

**Chemicals releases above permissible limits and its health effects caused to residents of Pithampur during 7 incineration trial runs carried out at Pithampur facility**

S No.	Chemicals released above permissible limit	Health Effects of Exposure	Percentage Excess Above permissible Limit							
			July 2010	Nov 2010	April 23-25 2012	June 17-19 2012	30 Nov-3 Dec 2012	Jan 2013	June 2013 (HIL)	Aug 2015 10MT UC
1	Hydrogen Chloride (HCL)	It can causes irritation of the airways and shortness of breath and irritation in the eye and possibly damage to lungs				147				
2	Carbon Dioxide (CO2)	Can cause difficulty in breathing	112		117	112	102	111		
3	Dioxins & Furans	It can lead to impairment of immune system, development of nervous system fetus, the endocrine system and the reproductive systems.	16320	116	26720	6800	4870			
4	Heavy Metals (Sb+As+Pb+Co+Cu+Cr+Mn+ Ni+V+their Compounds)	It is toxic to the nervous system - the brain and spinal cord - particularly the developing nervous system of a fetus or young child. It can also cause damage to kidney and liver	3586	152	766	184				

5	Particulate Matter	Aggarvated asthma, Chnoic bronchitis, decreased lung function, painful breathing	276	400	268				81	
6	Carbon Monoxide (CO)	It inhibits the blood's inability to carry oxygen to vital organs such as heart and kidney	188	125	8994				9	
7	Hydrogen Fluoride	Can cause pulmonary edema, bronchitis, etc.		240						