

MINISTRY OF ENVIRONMENT AND FORESTS
NOTIFICATION

New Delhi, the 4th March, 2009

G.S.R. 149(E).—In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:-

1. (1) These rules may be called the Environment (Protection) Second Amendment Rules, 2009.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule I, in serial number 73 relating to Pharmaceuticals Industry (Bulk Drugs), after the existing entries under columns 3 and 4, the following entries shall be inserted, namely:-

S. No	Industry	Parameter	Standard		
1	2	3	4		
		" A. Emission from Incinerator			
			Limiting concentration in mg/Nm ³ , unless stated	Sampling duration in (minutes) unless stated	
		Particulate Matter	50	30 or more (for sampling about 300 litre emission)	
		HCl	50	30	
		SO ₂	200	30	
		CO	100	daily average	
		Total Organic Carbon	20	30	
		Total Dioxins and Furans *	Existing Incinerator	0.2 ngTEQ/Nm ³	8 hours
			New Incinerator	0.1 ngTEQ/Nm ³	8 hours

1	2	3	4
		Sb +As + Pb + Cr + Co +Cu +Mn + Ni + V + Cd + Th + Hg and their compounds	1.5 2 hours
		* The existing plant shall comply with norms for dioxins and furans as 0.1 ng/TEQ/Nm³ within 5 years from the date of notification. Notes : i. All monitored values shall be corrected to 11% oxygen on dry basis. ii. The CO₂ concentration in tail gas shall not be less than 7%. iii. In case, halogenated organic waste is less than 1% by weight in input waste, all the facilities in twin chamber incinerator shall be designed so as to achieve a minimum temperature of 850±25°C in primary chamber and 950°C in secondary combustion chamber and with a gas residence time in secondary combustion chamber not less than 2 (two) seconds. or all the facilities in single chamber incinerator for gaseous hazardous waste shall be designed so as to achieve a minimum temperature of 950°C in the combustion chamber with a gas residence time not less than 2 (two) seconds. iv. In case halogenated organic waste is more than 1% by weight in input waste, waste shall be incinerated only in twin chamber incinerators and all the facilities shall be designed to achieve a minimum temperature of 850±25°C in primary chamber and 1100°C in secondary combustion chamber with a gas residence time in secondary combustion chamber not less than 2 (two) seconds). v. Scrubber meant for scrubbing emissions shall not be used as quencher. vi. Incineration plants shall be operated (combustion chambers) with such temperature, retention time and turbulence, as to achieve Total Organic Carbon (TOC) content in the incineration ash and residue less than 3%, and their loss on ignition is less than 5% of the dry weight. In case of non-conformity, ash and/or residue shall be re-incinerated. vii. The incinerator shall have a chimney of atleast thirty metre height.	

1	2	3	4
		B. Effluent from Incinerator	
		i. Effluent from scrubber (s) and floor washing shall flow through closed conduit/pipe network. ii. Storm water shall not be allowed to mix with scrubber water and/or floor washings. iii. Storm water shall be channelized through separate drains passing through a HDPE lined pit having holding capacity of 10 minutes (hourly average) of rainfall. iv. The built up in Total Dissolved Solids (TDS) in wastewater of floor washings shall not exceed 1000 mg/l over and above the TDS of raw water used. v. Effluent shall not be stored in holding tank(s) in such manner which may cause pollution to groundwater." vi. Effluent (scrubber water and floor washings) shall be discharged into receiving water conforming to the norms prescribed under Schedule VI: General Standards for Discharge of Environment Pollutions (Part A: Effluents) notified under the Environment (Protection) Rules, 1986".	

[F. No.Q-15017/34/2006-CPW]

RAJNEESH DUBE, Jt. Secy.

Note : The principal rules were published in the Gazette of India vide number S.O. 844 (E) 19th November, 1986 and subsequently amended vide S.O. 433 (E) dated 18th April 1987, S.O. 64 (E) dated 18th January 1988, S.O. 3 (E) dated 3rd January 1989, S.O. 190 (E) dated 15th March 1989, G.S.R. 913 (E) dated the 24th October 1989, S.O. 12 (E) dated the 8th January 1990, G.S.R. 742 (E) dated the 30th August 1990, S.O. 23 (E) dated the 16th January 1991, G.S.R. 93 (E) dated the 21st February 1991 G.S.R. 95 (E) dated the 12th February 1992, G.S.R. 329 (E) dated the 13th March 1992, G.S.R. 475 (E) dated the 5th May 1992 G.S.R. 797 (E) dated the 1st October 1992, G.S.R. 386 (E) dated the 28th April 1993, G.S.R. 422 (E) dated the 19th May 1993, G.S.R. 801 (E) dated the 31st December 1993, G.S.R. 176 (E) dated the 3rd April 1996, G.S.R. 631 (E) dated the 31st October 1997, G.S.R. 504 (E) dated the 20th August 1998, G.S.R. 7 (E) dated the 2nd January 1999, G.S.R. 682 (E) dated the 6th October 1999, G.S.R. 742 (E) dated the 25th September 2000, G.S.R. 72 (E) dated the 6th February 2001, G.S.R. 54 (E) dated the 22nd January 2002, G.S.R. 371 (E) dated the 17th May, 2002, G.S.R. 489 (E) dated the 9th July 2002, S.O. 1088 (E) dated the 11th October 2002 and G.S.R. 849 (E) dated the 30th December 2002, G.S.R. 520 (E) dated 1st July, 2003, G.S.R. 92 (E) dated 29th January 2004, G.S.R. 448 (E) dated 12th July 2004, Corrigenda G.S.R. 520 (E) dated 12th

August 2004, G.S.R. 272 (E) dated 5th May 2005, G.S.R. 315 (E) dated 16th May 2005, G.S.R. 546 (E) dated 30th August 2005, G.S.R. 46 (E) dated 3rd February 2006, G.S.R. 464 (E) dated 7th August 2006, G.S.R. 640 (E) dated 16th October 2006, G.S.R. 566 (E) dated 29th August 2007, G.S.R. 704 (E) dated 12th November 2007, G.S.R. 186 (E), dated 18th March 2008, G.S.R. 280 (E) dated 11th April 2008, G.S.R. 344 (E), dated 7th May 2008, G.S.R. 414 (E) dated 30th May 2008, G.S.R. 481 (E) dated 26th June 2008, G.S.R. 579 (E) dated 6th August 2008, G.S.R. 600 (E) dated 18th August 2008, G.S.R. 752 (E) dated 24th October 2008 and G.S.R. 844 (E) dated 18th February 2009.