

G.S.R.446.(E) ENVIRONMENT (PROTECTIONS), FIFTH AMENDMENT RULES, 2011

RED. NO. D. L.330(hW- Che Gazette of India 31 DI No. 3101 2. " 40 2169 GI/2011 EXTRAORDINARY PART 11—Section 3—Sub-section (i) PUBLISHED BY AñN0Rrvv 13, 2011 23, 1933 NEW DELHI, MONDAY, JUNE 13, 2011/JYNSTH.A n, 1933 13 2011 3TfUfiqq, 1986 (1986 29) 6 25 Ku, (üRTVT) 1986 (1) 2011 I frqq, 1986 (ii) 101, qLV11; (iii) 40, a•üT' (2) (3) HCl P205, NH3 (1) (4) 20 5 10 30 1) GAZETTE OF INDIA : EXTRAORDINARY (3) HBr pH BOD, 3 270 ÜAE) (CN (N03 C6H5 OH [PAKT [I—Sæ. 3(i)] 20 20 5 åRT 6.5-8.5 30 100 10 100 100 96 90 0.2 1.0 1.0 0.01 0.1 1.0 0.2 50 5.0 1.0 (3) (BH 0.03 0.01 0.01 0.05 9.6 0.01 0.45 0.4 0.01 0.01 0.01 0.01 2.3 0.01 0.01 7.3 0.01 1.0 0.10 •1. 2. IS: 6582-1971 I (TDS), (COD) COD 250 i, asr 250 COD 1989 31 2012 1 2 THE GAZETTE OF INDIA : EXTRAORDINARY 3 3. Orrs?lZå" HCl soz co qT@ÜT BINT./ 50 50 200 100 20 0.2 ng TEQ/Nmg 0.1 n g TEQ/Nm3 1.5 [PAKr II—SEC. 4 i-cq•få7T 30 300 30 30 30 8 2 2013 0.1 ng TEQ/Nm3 I 1. 11 2. C02 1 3(i) (1 (2) 3. 3) (4 11000 üü•g I *tziå 9500 I ait 850 +250 11000 #åtg 3Td*ra (TOC) 3TVIT I (üdüT) 1986 ("TJT-Q\$: (2) fia (TDS) TDS 1000 6 THE GAZETTE OF : EXTRAORDINARY IT—SEC. 30] 0) aq'r (2) 3ia*TJIT a•ÉT 10 (Ett ca.å.t.\$ 7Tå ' -arum: - æ4. QiT.3fl. 844 (30, 19 1986 @ZfiT.3TT. 443(3T), 18 3#ö, 1987, æfl.qn.a. 512 (31), 9 2009,' æ{r.E5T.a. 543(3T), 22 2009; 595 (3), 21 3-ØTR, 2009; 794 (31), 04 2009; æq.QT.ü. 826 B), 16 2009, 01 (31), I 2010: 61 5 2010, 485 (31), 9 2010,' 608 (30, 21 2010, 739 (3T):• 9 2010; 809 4 2010 ; 215 15 2011, æ11.ZhT.a. 221 (3), 18 2011; 354 2011; 2011 MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION New Delhi, the 13th June, 2011 GS.R. 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:- I. (1) These rules may be called the Environment (Protection) (Fifth Amendment) Rules, 2011. (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,- omitted; (ii) serial number 101 relating to 'Incinerator for Pesticide Industry' and entries relating thereto shall be omitted; and (iii) for serial number 40 relating to 'Pesticide Manufacturing and Formulation •Industry' and entries relating thereto, the following serial number and entries shall be substituted, namely:- S.No. 1 "40 Indust (2 Pesticide Industry Parameter 3 HCl H2S P205 as H3P04 Standard A. Emission Standards Pesticides compounds in the form of particulate matter CH3Cl HBr Limiting concentration in mg/Nm3 20 5 10 30 20 20 5 B. Effluent Standards Limiting concentration in mgn, except for and Bioassay test i) Compulsory Parameters 6.5-8.5 BOD, 3days, 270c Formulation unit Technical unit Oil and Grease Suspended Solids Bioassay Test 30 100 10 100 90 percent survival of fish after 96 hours in 100% effluent* — SEC. 3(i)] 1 2 THE GAZETTE OF INDIA : EXTRAORDINARY (3 (ii) Additional Parameters Arsenic as As Co or Mercuric Mercury Antimony (as Sb) Zinc Nickel, etc.(heavy metals individually) Cyanide (as CN) Nitrate (as N03) Phenol & Phenolic Compounds as C6H5OH Sulfur Benzene Hexachloride BHC Carbon I Copper Sulphate Co r Ox chloride DDT Dimethoate Endosulfan Fenitrothion Malathion MephN(Parathion Paraquat Phenathoate Phorate Propanil Pyrethrins Ziram Other Pesticide (individually) 4 0.2 1.0 0.01 0.1 Shall not exceed individually 5 times the drinking water standards as per Bureau of Indian Standards 0.2 50 5.0 1.0 0.03 0.01 0.01 0.05 9.6 0.01 0.45 0.4 0.01 0.01 0.01 0.01 2.3 0.01 0.01 7.3 0.01 1.0 0.10 *Bioassay Test shall be carried out as per IS: 6582-1971, Note: 2. The concerned State Pollution Control Board / Pollution Control Committee shall prescribe limits of Total Dissolved Solids (TDS), Sulphates and Chlorides depending on the usages of recipient water body in downstream, in which effluent shall be disposed off. No limit for Chemical Oxygen Demand (COD) is prescribed but, COD in the treated effluent shall be monitored. If COI is persistently reported more than 250 mg/l, the industrial units discharging such an effluent shall be required to identify chemicals 1 2 3. 3 causing the same. In case, are found to be as defined in Schedule I of the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, the concerned State Pollution Control Board/ Pollution Control Committee in such cases direct the industries to install tertiary system by 31 st March, 2012. Parameters listed as "Additional Parameters" shall be prescribed depending on the use and use, on a case to case basis. C. Emission Standards for Incinerator Particulate Matter SO2 or Total organic Carbon Total Dioxins and Existing Limiting concentration in mg(Nm3, unless stated 50 so 200 100 20 0.2 ngTEQ/Nm Furans * Incinerator New

Incinerator 0.1 ngTEQ/Nm Sampling Duration in minutes, unless stated 30 or more (for sampling litres of emission 30 30 Daily average 30 8 hours 8 hours 2 hours Sb + Pb + Cr + co 4-Cu + Ni + V and their compounds * The existing plant shall comply with norms for Dioxins and Furans as 0.1 ngTEQ/Nm³ by 18th August, 2013. Note . 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 10/0 by weight in input waste, all the facilities in single chamber incinerators shall be designed so as to achieve a minimum temperature of 11000C in the incinerator. For fluidized bed technology based incinerator, temperature shall be maintained at 9500C. 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±250C in primary chamber and 11000C in secondary combustion chamber with a gas residence time in secondary [PAKI 3(i)] 10 (1) (2 GAZETTE OF : EXTRAORDINARY (4) (3) combustion chamber not less than 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 residue as the case may be, shall be re-incinerated. vii. The incinerator shall have a chimney of at least thirty metres height. D. Effluent from Incinerator Note: (i) Effluent from scrubber (s) and floor washings shall flow through closed conduit or pipe network and be treated to comply with the I effluent standards mentioned at 'B' above, read with Schedule VI General Standards for Discharge of Environment Pollutions (Part A Effluents) notified under the Environment (Protection) Rules, 1986. (ii) The built up in TDS in wastewater or floor washings shall not exceed 1000mg/l over and above the TDS of raw water used. E. Stormwater Note: (i) Stormwater shall not be allowed to mix with scrubber water and/or floor washings. (ii) Stormwater shall be channelized through separate drains passing through a HDPE lined pit having holding capacity 10 minutes hourly average) of rainfall." (F. No. (2-1501707/2008-CPW] RAJNEESH DUBE, Jt. secy. Note : The principal rules were published in the Gazette of India vide number S.O. 844 (E), In November, 1986; subsequently amended vide S.O. 433 (E), dated 1st April 1987; and recently amended vide G.S.R. 97(E), dated the 18th February, 2009; G.S.R. 149 (E), dated the 4th March, 2009; G.S.R. 512(F). dated the 9th July, 2009; G.S.R. 543 dated the 22nd July, 2009; G.S.R. 595(E), dated the 21st August, 2009; G.S.R. 794 (E), dated the 4th November, 2009; G.S.R. 826 (E), dated the 16th November, 2009; G.S.R. 01 dated the January, 2010; G.S.R. 61(E), dated February, 2010; G.S.R. 485 dated June, 2010; G.S.R. 608 (E), dated 21st July, 2010; G.S.R. 739 (E), dated the September, 2010; G.S.R. 809 (E), dated, 4th October, 2010; G.S.R. 215(E), dated, the March, 2011; G.S.R. 221(E), dated, the 2011; G.S.R. 354 dated, the 2nd May, 2011; and dated the June, 2011. Printed by the Manager, Government of India Press, Ring Road, Mayapuri, New Delhi-110064 and Published by the Controller of Publications, Delhi-110054.