

G.S.R. 742(E) ENVIRONMENT (PROTECTION) AMENDMENT

1&-33004/99 REGD. NO. D. L.-33004/99 Che Gazette of India 494 No. 4941 EXTRAORDINARY PART 11—Section 3—Sub-section (i) PUBLISHED BY AUTHORITY 75*0r, 25, 3, 1922 NEW DELHI, MONDAY, SEPTEMBER 25, 2000/ASVINA 3, 1922 25 2000 ft. 742((æi-«m) 1996 (1996 29) 6 25 (fiqq, 1996 t, • 1. (1) (æiR4UT) 2000 2. 1986 (1) 1 89 90. 500 (qq. tfr. qq.), (t. qq.), (I [, Ill I 2593 GI'2000 2 1 11 üZT, 2 (Iff 2 fi?ifqa THE GAZETTE OF INDIA 3 24 24 * * 24 24 3 24 * * 24 EXTRAORDINARY 4 360 'IT./ * 500 180 250 80 120 80 120 4 430 u-r./#T3 600 215 300 [PART 11 5 I .01 -c:n-q 5 1.1 —SEC. 3(i)] 3(i)] 2 2 2 3 24 24 qruft-III 3 24 24 24 24 4 80 7ÄT.Ät3 120 80 120 4 5000 700 230 300 80 120 80 120 TÄT./#t3 B-fÅ 111 * *24 % 1 580 3-TT7T i, VII I 4 THE GAZETTE OF INDIA EXTRAORDINARY fig 50 3 *lit —qft 3. fiz () (341. *PIOT) 5.5 9.0 100 fig.u•r./f« 200 ATR. \$) 10 ft. u•rq.rf«. 250 ft. AT.fr. 10.00 RH-6.ooq, (qrq0rzfiTT 6.00 q. 1&10.OO tfr. 75 (q) 91. 1 2001 90 Aft. 1 2002 3. : (B-q-q -g-å*; t) xnz€i (a-a-a -afi I (-a-QT -qfi 1986 I ' ' (TT) 2001 2002) I 92. 3TR) 100 30 250 1 10 2 2 6 THE GAZETTE OF INDIA : EXTRAORDINARY [PART 11—SEC -30]] (at 100 fi.uT.ft, (Qi zt) 400 fi.UT.ft. I 100, 250 80 93. " 3tlQPT" I 1. qq. q. VT./100 N.f«. fifi. (270 3 1 500 (qi•sq0rq) 2500 () 100 (qiø#rq) 500 •qqfqfi•q 3-71fq 5 B.UT.ft. 3 fi.üT.ft. qi-q 1 2003 -qn 3(i)] 3028-1998 80 80 175 175 175 175 12 7 1 2003 75 77 80 77 80 75 77 80 82 1 2003 YI. qT. 3028-1998 I" æi. 844 (37), 19 1986 371. 433 (aq), 18 1987, Ä5T.3-TT. 64 (3-0, 18 1988, q5T.3-11. 3 (34), 3 1989, 190 (37), 15 1989, 913 (31), 24 1989, 12 (30, 8 1998, 742 (30, 30 1998, 23 (3-7), 16 1991, 93 (30, 21 1991, 95 (33), 1992, ft. 329 (ao 13 qN, 1992 475 (3-1), 5 1992, æTTÄiT.fi. 797 (30, 1 1992, m*Ä.fr. 386 (30, 28 1993, 422 (3-1'), 19 qi, 1993, 801 (30, 31 1993. 176 (aq), 1996, 631 (a-I), 31 1997, 504 (3-1), 20 1998, 7 (q), 2 1999, æff.q5T.fi. 688 (34), 5 1999 8 THE GAZETTE OF INDIA : EXTRAORDINARY MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION New Delhi, the 25th September, 2000 ART II— SEC. .30) In exercise of the powers conferred by sections 6 and 25 of the G.S.R 742(E).— 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. 2. "90. (1) These rules may be called the Environment (Protection) Amendment Rules, 2000. Save as otherwise provided in this notification, they shall come into force (2) on the date of their publication in the Official Gazette. In the Environment (Protection) Rules, 1986, — In Schedule I, after serial number 89 relating to Noise standards for fire (1) crackers and the entries relating thereto, the following serial numbers and entries shall be inserted, namely: — Standards for coal mines Air Quality Standards 1. The Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM), Sulphur dioxide (SO₂) and Oxides of Nitrogen (NO_x) concentration in downwind direction considering predominant wind direction, at a distance of 500 metres from the following dust generating sources shall not exceed the standards specified in the Tables I, II and III given below: Dust Generating Sources Loading or unloading, Haul road, coal transportation road, Coal handling plant (CHP), Railway siding, Blasting, Drilling, Overburden dumps, or any other dust generating external sources like coke ovens (hard as well as soft), briquette industry, nearby road etc. 3(i)] Category 1 1 New Mines Mines Table 1 Coal (Coal Pollutant 2 Suspended Particulates Matter (SPM) Respirable Particulate Matter (size less than 10 µm RPM Time weighted average 3 Annual Average* 24 hours* * Annual Average* 24 hours* * Annual Average* 24 hours* * Annual Average* 24 hours* * Concentrat-t Method of Measurement ion in Ambient Air 4 3 360 µg/m³ 1 500 µg/m³ 1 80 µg/m³ 250 µg/m³ 80 µg/m³ 3 80 µg/m³ 120 µg/m³ High Volume (Average flcm less than 1 \ ni Samplina rate not /tminute) commenced operation after the date of publication of notification) Respirable Particulate Matter sampling and analysis Sulphur Dioxide (SO₂) Oxide Nitrogen NO₂ of as I 2 12 Improved west Gaeke !nethod Ultraviolet fluorescenc Jacob & Hochheiser Modified (N a-Arsenic) Method Gas phase Chemilumine- scence 10 Category 1 11 Existing coal fields / mines given below: Karanpura, Ramgarh, Giridih, Rajhara, Wordha, Nagpur, Silewara, Pench Kanhan, Patharkhera, Umrer, Korba, Chirimiri, Central India Coalfields (including Baikunthpur, Bistrampur), Singrauli, Ib Valley, Talcher, Godavary- Valley and an other THE GAZETTE OF INDIA • EXTRAORDINARY Table 11 Pollutant 2 Suspended Particulates Matter (SPM) Respirable Particulate Matter (size less than 10 µm RPM Time weighted average 3 Annual Average* 24 hours* * Annual Average* 24 hours* * Annual Average* 24 hours* * Annual Average* 24 hours* * Concentra- tion Ambient Air 4 430 µg/m³ 600 µg/m³ 215 µg/m³ 300 µg/m³ 80 µg/m³ 120 µg/m³ 80 µg/m³ 120 µg/m³ i

Method of Measurement 5 High Volume Sampling (Average flow rate not less than 1.1 m³/minute) Respirable Particulate Matter sampling and analysis Sulphur Dioxide (SO₂) Oxide Nitrogen NO₂ of as 120 3 m of as 120 pg./m³ Improved west and Gaeke method Ultraviolet fluorescence Jacob & Hochheiser Modified (Na-Arsenic) Method Gas phase Chemiluminescence Annual Arithmetic mean for the measurements taken in a year, following the guidelines for frequency of sampling laid down in clause 2. 24 hourly / 8 hourly values shall be met 92% Of the time in a year However, 8% of the time it may exceed but not on two consecutive Unauthorised construction shall not be taken as a reference of nearest residential or commercial place for monitoring. In case any residential or commercial or industrial place falls within 500 metres of any dust generating sources, the National Ambient Air Quality Standards notified under schedule •VII shall be applicable, 2

3. THE GAZETTE OF INDIA EXTRAORDINARY Frequency of Sampling Air quality monitoring at a frequency of once in a fortnight at the dust generating sources given in clause I shall be carried out.

As a result of monthly monitoring, if it is found that the value of the pollutant is less than 50% of the specified standards for three consecutive months, then the sampling frequency may be shifted to two days in a quarter year (3 months). In case, the value has exceeded the specified standards, the air quality frequency shall be done twice within the results of four consecutive (that the concentration of pollutant is within the specified monitoring may be reverted to. The standards for effluent discharge into sewer or stream, or land, are given below • Chemical Oxygen Demand (COD) Total Suspended Solids (TSS) Oil & Grease (O & G) 550 250 mg/l 200 mg/l 200 mg/l (Land for irrigation) 100 mg/l (Monitoring frequency of these parameters shall be once in a fortnight) Optional parameters : All other parameters indicated in the general standards for discharge of environment pollutants under Schedule VI, shall be in addition to the effluent standards specified under clause 3. (Monitoring frequency shall be once in a year for the optional parameters) 4. Noise Level Standards 6.00 AM - 10.00 PM Noise level Leq 75 dB(A) 10.00 PM - 6.00 AM Leq 70 dB(A) (Monitoring frequency for noise level shall be once in fortnight) Occupational exposure limit of noise specified by Director General of Mines Safety (DGMS) shall be complied with by the coal mines. 3(i) 91. Noise Limit for Generator Sets run with Petrol or Kerosene 13 1. Noise limit Noise limit for new generator sets run with petrol or kerosene shall be as given below: Sound Power Level L_{WA} Noise Limit from September 1, 2001 90 dBA September 1, 2002 86 dBA 2. Applicability These rules shall apply to all new generator sets using petrol or kerosene as fuel, manufactured in or imported into India. Provided that these rules shall not apply to: (a) (b) 3. any genset manufactured or imported for the purpose of exports outside India, or the genset is intended for the purpose of sample only and not for sale in India. Requirement of certification Every manufacturer or importer (hereinafter referred to as "supplier") of genset (hereinafter referred to as "product") to which these rules apply must have a valid certificate of type approval for all the product models being manufactured or imported after the specified dates

4. Verification of conformity of production (COP) Every supplier shall subject its products to the verification for conformity of production, by certification body specified in clause 8, every year

5. Sale of generator sets not complying with these rules The sale of a product model, not having valid type approval certificate, or not complying with the noise limits, as determined by the verification for conformity of production, shall be prohibited, in India.

OF INDIA : EXTRAORDINARY Requirement of conformance labeling [PART II—SEC. 6. 60] (a) (b) 6(2) (a) (1) (2) (3) 8. The supplier of the 'product' must affix a conformance label on the product meeting the following requirements: the label shall be durable and legible, the label shall be affixed on a part necessary for normal operation of the 'product' and not normally requiring replacement during the 'product' life. The conformance label must contain the following information: name & address of the supplier (if the address is described in the manual it may not be included in the label) statement that "this product conforms to the Environment (Protection) Act, 1986" (hereinafter referred to as "the Act") and the date of issue of the certificate of type approval (hereinafter referred to as "the certificate") (hereinafter referred to as "the certificate"). Nodal agency The Central

Pollution Control Board shall be the nodal agency for implementation of these rules. In case of any dispute or difficulty in implementation of these rules the matter shall be referred to the nodal agency. The nodal agency shall constitute a Standing Committee to advise it on all matters; including the disputed matters, related to the implementation of these rules. Certification body The following agencies are authorised for type approval and for verification of conformity of production. (1) (2) (3) (4) (5) 9. Automotive Research Association of India, Pune; National Physical Laboratory, New-Delhi; Naval Science & Technology Laboratory, Visakhapatnam; Fluid Control Research Institute, Palghat; and National Aerospace Laboratory, Bangalore. Compliance and testing procedure The compliance and testing procedure shall be prepared and published by Central Pollution Control Board, with the help of the certification agencies. 15 Standards for Effluents from Textile Industry Parameter Total suspended solids Bio-chemical oxygen demand (BOD) Chemical oxygen demand COD Total residual chlorine Oil and grease Total chromium as Cr Sulphide as S Phenolic compounds as C₆H₅OH Note: Concentration not to exceed, milligram per litre (mg/l), except H 100 30 250 1 10 2 2 1 1

2. Where the treated effluent is discharged into municipal sewer leading to terminal treatment plant, the BOD may be relaxed to 100 mg/l and COD to 400 mg/l. The quantity of effluent (litre per kilogram of product) shall not exceed 100, 250 and 80 in composite cotton textile industry, composite woollen textile industry and textile processing industry, respectively. 16 93. THE GAZETTE OF INDIA : EXTRAORDINARY Primary Water Quality Criteria for Bathing In a water body or its part, water is subjected to several types of uses. Depending on the types of uses and activities, water quality criteria have been specified to determine its suitability for a particular purpose. Among the various types of uses there is one use that demands highest level of water quality or purity and that is termed as "Designated Best Use" in that stretch of water body. Based on this, water quality requirements have been specified for different uses in terms of primary water quality criteria. The primary water quality criteria for bathing water are specified along with the rationale in table 1. Table 1. PRIMARY WATER QUALITY CRITERIA FOR BATHING WATER (Water used for organised outdoor bathing) CRITERIA 1. Fecal Coliform 2. Fecal Streptococci vPN/100 ml: 3. Dissolved Oxygen: 4. Biochemical Oxygen demand 3 day, 20°C: 500 (desirable) 2500 (Maximum Permissible) 100 (desirable) 500 (Maximum Permissible) Between 6.5-8.5 5 mg/l or more 3 mg/l or less RATIONALE To ensure low sewage contamination. Fecal coliform and fecal streptococci are considered as they reflect the bacterial pathogenicity. The desirable and permissible limits are suggested to allow for fluctuation in environmental conditions such as seasonal change, changes in flow conditions etc, The range provides protection to the skin and delicate organs like eyes, nose, ears etc. which are directly exposed during outdoor bathing The minimum dissolved oxygen concentration of 5 mg/l ensures reasonable freedom from oxygen consuming organic pollution immediately upstream which is necessary for preventing production of anaerobic gases (obnoxious gases) from sediment. The Biochemical Oxygen Demand of 3 mg/l or less of the water ensures freedom from oxygen reasonable demanding pollutants and prevent reduction of obnoxious gases"; 3(i)] in Schedule VI, in Part E relating to Noise Standards, after A relating to Noise (2) Limits for Automobiles, the following shall be inserted, namely: "AA Noise limits for vehicles with effect from the 1st January, 2003 The following noise limits for vehicles shall be applicable from the 1st day of January, 2003, The test method to be followed shall be IS:3028-1998. 17 S. No. Type of vehicle Noise Limits from January, 2003, dBA 75 77 80 77 80 75 77 80 82 1 1. 2, 3

4. Two wheeler 3 Displacement upto 80 cm Displacement more than 80 cm but 3 upto 175 cm 3 Displacement more than 175 cm Three wheeler 3 Displacement upto 175 cm 3 Displacement more than 175 cm Passenger car passenger or commercial vehicle Gross vehicle weight upto 4 tonne Gross vehicle weight more than 4 tonne but upto 12 tonne Gross vehicle weight more than 12 tonne The existing limits on pass-by noise shall continue with the test method IS 3028- 1998 till January, 2003." [F. No. Q-15017/16/99-cpwq VIJAI SHARMA, Jt. secy. 2 s-q8 COD/ 18 THE GAZETTE OF INDIA : EXTRAORDINARY PART 11—SEC. 3(i) Note principal rules were published in the Gazette of India vide number S.O. 844(E) dated the November, 1986 and subsequently amended vide S.O. 433(E) dated the 18th April, 1987, S.O. 64(E) dated the 18th January, 1988, S.O. 3(E) 3rd January, 1989, S.O. 190(E) dated the 15th March, 1989, G.S.R. 913(E) dated the 24th 1989, S.O. 12(E) dated 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 March, 1992,

G.S.R. 475(E) dated the May, 1992, G.S.R. 797(E) dated the October, 1992, G.S.R. 386 (E) dated the April, 1993, G.S.R. 422(E) dated the 19th May, 1993, G.S.R 801 (E) dated the December, 1993, G.S.R. 176 (E) dated the 3rd April, 1996, G.S.R. 631 (E) dated the October 1997, G.S.R 504 (E) dated the August, 1998, G.S.R. 7 dated the 2nd •January, 1999 and G.s.R. 682 (E) dated the 5th October, 1999. Printed by the Manager, Govt. of India Prss, Ring Road, Mayapuri, New Delhi-110064 and Publislkd by the Controller of Publicati01B, Delhi-110054,

