

Statutory Notification (S. R. O.)
THE NATIONAL ENVIRONMENTAL QUALITY STANDARDS

S. R. O. 742 (I)/93.--In pursuance of the powers conferred by clause (d) of section 6 of the Pakistan Environmental Protection Agency Ordinance, 1983 (XXXVII of 1983), the Pakistan Environmental Protection Agency. With the prior approval of the Pakistan Environmental Protection Council, hereby establishes the National Environmental Quality Standards as contained in the Annexes to this notification.

2. These National Environmental Quality Standards relating to municipal and liquid industrial effluents(Annex I), industrial gaseous emissions (Annex II) and motor vehicle exhaust and noise (Annex III), shall come into force with immediate effect, except in the case of industrial units to which the following schedule shall apply:

Existing industrial units i.e. those units already in
production _____ 01 July, 1996

New industrial units i.e. those units that will come into production on or after 30th June,
1994 _____ 01 July, 1994

National Environmental Quality Standards for Municipal and Liquid Industrial Effluents (mg/L, Unless Otherwise Defined)

S.No	Parameter	Standards
1.	Temperature	40°C
2.	pH value (acidity/ basicity)	6-10 pH
3.	5-days Biochemical Oxygen Demand (BOD) at 20°C	80 mg/l.
4.	Chemical Oxygen Demand (COD)	150 mg/l.
5.	Total suspended solids	150 mg/l.
6.	Total dissolved solids	3500 mg/l.
7.	Grease and oil	10 mg/l.
8.	Phenolic compounds (as phenol)	0.1 mg/l.
9.	Chloride (as Cl)	1000 mg/l.
10.	Fluoride (as F)	20 mg/l.
11.	Cyanide (as CN)	2 mg/l.
12.	An-ionic detergents ² (as MBAS) ³	20 mg/l.
13.	Sulphate (SO ₄)	600 mg/l.
14.	Sulphide (S)	1.0 mg/l.
15.	Ammonia (NH ₃)	40 mg/l.
16.	Pesticides, herbicides, fungicides and insecticides	0.15 mg/l.
17.	Cadmium ⁴	0.1 mg/l.
18.	Chromium ⁴ (trivalent and hexavalent).	1.0 mg/l.
19.	Copper ⁴	1.0 mg/l.
20.	Lead ⁴	0.5 mg/l.
21.	Mercury ⁴	0.01 mg/l.
22.	Selenium ⁴	0.5 mg/l.
23.	Nickel ⁴	1.0 mg/l.
24.	Silver ⁴	1.0 mg/l.
25.	Total toxic metals	2.0 mg/l.
26.	Zinc	5.0 mg/l.
27.	Arsenic	1.0 mg/l.
28.	Barium	1.5 mg/l.
29.	Iron	2.0 mg/l.
30.	Manganese	1.5 mg/l.
31.	Boron	6.0 mg/l.
32.	Chlorine	1.0 mg/l.

Explanations :

- 1 Assuming minimum dilution 1 : 10 on discharge. Lower ratios would attract progressively stringent standards to be determined by the Federal Environmental Protection Agency.
- 2 Assuming surfactant as bio-degradable.
- 3 MBAS means Modified Benzene Alkyl Sulphates.
- 4 Subject to total toxic metals discharge as at S . No. 25.

Annex II

National Environmental Quality Standards for Industrial Gaseous Emissions (mg/Nm³, Unless Otherwise Defined)

S.No.	Parameter	Source of emission	Standards
1.	Smoke	Smoke opacity not to exceed:-	40% or 2 (Ringlemann Scale).
2.	Particulate matter. ¹	Boilers and furnaces:	
		(I) Using Oil.	300
		(ii) Using Coal.	500
		(iii) Cement Kilns.	200
		Grinding, crushing, clinker coolers and related processes, metallurgical processes, convertors, blast furnaces and cupolas.	500
3.	Hydrogen Chloride	Any.	400
4.	Chlorine	Any.	150
5.	Hydrogen Fluoride	Any.	150
6.	Hydrogen Sulphide	Any.	10
7.	Sulphur Oxides	Sulfuric Acid Plants.	400
		Others.	400
8.	Carbon Monoxide	Any.	800
9.	Lead	Any.	50
10.	Mercury	Any.	10
11.	Cadmium	Any.	20
12.	Arsenic	Any.	20
13.	Copper	Any.	50
14.	Antimony	Any.	20
15.	Zinc	Any.	200
16.	Oxides of Nitrogen (NO _x)	(i) Any Nitric Acid manufacturing unit.	400
		(Ii) other sources	400

Explanations :

Based on the assumption that the size of the particles is 10 microns or more.

**National Environmental Quality Standards
for Motor Vehicle Exhaust and Noise**

S.No	Parameter	Standards (maximum permissible limit)	Measuring method
1.	Smoke	40% or 2 on the Ringlemann Scale during engine acceleration mode.	To be compared with Ringlemann Chart at a distance of 6 meters or more.
2.	Carbon Monoxide.	<u>Emission Standards :</u> New Vehicles. Used Vehicles. 4.5 % 6 %	Under idling conditions: Non dispersive infrared detection through gas analyzer.
3.	Noise.	85 db (A).	Sound-meter at 7.5 meters from the source.

Source:

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