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GOVERNMENT OF THE PUNJAB LAW AND PARLIAMENTARY AFFAIRS DEPARTMENT

NOTIFICATION (118 of 2016)

12th August 2016.

The following Notification No. SO(G)/EPD/7-26/2013, dated 05.08.2016 regarding the Punjab Environmental Quality Standards for Industrial Gaseous Emissions is published for general information:

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Secretary Government of the Punjab Law and Parliamentary Affairs Department

Government of the Punjab Environment Protection Department

NOTIFICATION: No. SQ(G)/EPD/7-26/2013. — In exercise of the powers conferred under clause (c) of sub-section (1) of section 4 of the Punjab Environmental Protection Act, 1997 (XXXIV of 1997), the Environmental Protection Council has approved the following as the Punjab Environmental Quality Standards for Industrial Gaseous Emissions:

PUNJAB ENVIRONMENTAL QUALITY STANDARDS FOR INDUSTRIAL GASEOUS EMISSIONS (mg/Nm³, UNLESS OTHERWISE DEFINED)

No.	Parameter	Source of Emission	Standard 4 40% or 2 Ringlemann Scale or equivalent smoke number		
1	2	3			
1	Smoke	Smoke opacity not to exceed			
· 2	Particulate matter (1)	(a) Boilers and furnaces:			
		(i) Oil fired	300		
		(ii) Coal fired	500		
e ⁸		(iii) Cement Kilns	300		
		(b) Grinding, crushing, clinker coolers and related processes, metallurgical processes, converters, blast furnaces and cupolas.	500		
3 .	Hydrogen Chloride (HCl)	Any	400		
4	Chlorine (Cl ₂)	Any	150		
5 .	Hydrogen Fluoride (HF)	Any	150		
6	Hydrogen Sulphide (H ₂ S)	Any	10		
7	Sulphur Oxides (2)(3)	Sulfuric acid / Sulfonic acid plants	5000		
		Other plants except power plants operating on oil and coal	1700		
- 8	Carbon Monoxide (CO)	Any	800		

No.	Parameter	Source of Emission	Standard			
. 9	Lead (Pb)	Ány	50			
10	Мегсигу (Нg)	Any	10 :			
11	Cadmium (Cd)	Any	20			
12	Arsenic (Ar)	Any	20			
13	Copper (Cu)	Any	50			
14	Antimony (Sb)	Any	20			
15	Zinc (Zn)	Any	200			
16	Oxides of Nitrogen	Nitric acid manufacturing unit	3000			
В		Other plants except power plants operating on oil or coal:				
	al n	Gas fired	400 .			
2		Oil fired	600			
3 · · · · · · · · · · · · · · · · · · ·		Coal fired	1200			

Explanations:

- Based on the assumption that the size of the particulate is 10 micron or more.
- 2. Based on 1 percent sulfur content in fuel oil. Higher content of sulfur will cause standards to be pro-rated.
- 3. In respect of emissions of sulfur dioxide and nitrogen oxides, the power plants operating on oil and coal as fuel shall in addition to the Punjab Environmental Quality Standards (PEQS) specified above, comply with the following standards:

A. Sulfur Dioxide

Background Air Quality (\$O ₂ Basis)	Annual Max. 24 hours Average Interval		Criterion I Max. SO ₂ Emission (Tons per Day per plant)	Criterion II Max. Allowable ground level increment to ambient (ug/m³) (One Year Average)
Unpolluted	2677-522 20			
Moderately Polluted*	< 50	< 200	500	50

Background Air Quality (SO ₂ Basis)	Annual Average	Max. 24 hours Interval	Criterion I Max. SO ₂ Emission (Tons per Day per plant)	Criterion II Max. Allowable ground level increment to ambient (ug/m³) (One Year Average)
Low	50 .	200	500	50
High	100	400	100	10
Very Polluted**	> 100	> 400	100	10

- For intermediate values between 50 and 100 ug/m³ linear interpolations should be used
- ** No projects with Sulfur dioxide emissions will be recommended.

B. Nitrogen Oxide

Ambient air concentrations of Nitrogen Oxides, expressed as NOx should not exceed the following:

Annual Arithmetic Mean 100ug/m³ (0.05 ppm)

Emission levels for stationary source discharges before mixing with the atmosphere, should be maintained as follows:

For fuel fired steam generators, as Nano-gram per joule (10-9 g/J) of heat input:

Liquid fossil fuel	30			ā	130
Solid fossil fuel	v	75			300
Lignite fossil fuel			70		260

Note: Dilution of gaseous emissions to bring them to the NEQS limiting value is not permissible through excess air mixing blowing before emitting into the environment.

(IQBAL MOHAMMED CHAUHAN) Secretary, Government of the Punjab Environment Protection Department