

National Ambient Air Quality Standards (NAAQS)

Notified on 18th November 2009

S. No.	Pollutant	Time Weighted Average	Concentration in Ambient air		
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (Notified by Central Govt.)	Method of Measurement
1	Sulphur Dioxide	Annual*	50 µg/m ³	20 µg/m ³	-Improved West and Gaeke -Ultraviolet fluorescence
		24hours**	80 µg/m ³	80 µg/m ³	
2	Nitrogen Dioxide	Annual*	40 µg/m ³	30 µg/m ³	-Modified Jacob and Hochheiser (Na-Arsenite) -Chemiluminescence
		24hours**	80 µg/m ³	80 µg/m ³	
3	Particulate Matter (PM ₁₀) (size less than 10 micron)	Annual*	60 µg/m ³	60 µg/m ³	-Gravimetric -TOEM -Beta attenuation
		24hours**	100 µg/m ³	100 µg/m ³	
4	Particulate Matter (PM _{2.5}) (size less than 2.5 micron)	Annual*	40 µg/m ³	40 µg/m ³	-Gravimetric -TOEM -Beta attenuation
		24hours**	60 µg/m ³	60 µg/m ³	
5	Ozone (O ₃)	8 hours**	100 µg/m ³	100 µg/m ³	-UV photometric -Chemiluminescence -Chemical method
		1 hour**	180 µg/m ³	180 µg/m ³	
6	Lead (Pb)	Annual*	0.50 µg/m ³	0.50 µg/m ³	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper -ED-XRF using Teflon filter
		24hours**	1.0 µg/m ³	1.0 µg/m ³	
7	Carbon Monoxide (CO)	8 hours	2.0 mg/m ³	2.0 mg/m ³	-Non Dispersive Infra Red (NDIR) Spectroscopy
		1 hour	4.0 mg/m ³	4.0 mg/m ³	

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8	Ammonia (NH ₃)	Annual*	100 µg/m ³	100 µg/m ³	-Chemiluminescence -Indophenol blue method
		24hours**	400 µg/m ³	400 µg/m ³	
9	Benzene (C ₆ H ₆)	Annual*	5.0 µg/m ³	5.0 µg/m ³	-Gas Chromatography based continuous analyzer -Adsorption and desorption followed By GC analysis
10	Benzo(a) Pyrene (BaP)- Particulate phase only	Annual*	1.0 ng/m ³	1.0 ng/m ³	-Solvent extraction followed by HPLC/GC analysis
11	Arsenic (As)	Annual*	6.0 ng/m ³	6.0 ng/m ³	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper
12	Nickel (Ni)	Annual*	20.0 ng/m ³	20.0 ng/m ³	-AAS/ICP method after sampling on EPM 2000 or equivalent filter paper

* Annual arithmetic mean of minimum of 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be compiled with 98% of the time in a year.

2% of the time, they may exceed the limits but not on two consecutive days of monitoring.