Environmental Standards

Emission

CERAMIC INDUSTRY: EMISSION STANDARDS

Sections		Pollutants	Concentration	
A.	Kilns		in mg/Nm ³	
	(a) Tunnel, Top Hat, Chamber	Particulate Matter Fluoride Chloride Sulphur dioxide	150 10 100 **	
	(b) Down-draft	Particulate Matter Fluoride Chloride Sulphur dioxide	1200 10 1000 **	
	(c) Shuttle	Particulate Matter Fluoride Chloride Sulphur dioxide	150 10 100 **	
	(d) Vertical Shaft Kiln	Particulate Matter Fluoride Sulphur dioxide	250 10 **	
	(e) Tank Furnace	Particulate Matter Fluoride Sulphur dioxide	150 10 **	
B.	Raw Material handling, Processing and operations			
	(a) Dry raw materials handling and processing operations	Particulate Matter	150	
	(b) Basic raw material and processing operations	Particulate Matter	*	
	(c) Other sources of air pollution generation	Particulate Matter	*	
C.	Automatic Spray Unit			
	(a)Dryers (i) Fuel fired dryers (ii) For heat recovery dryers	Particulate.Matter Particulate Matter	150	
	(b) Mechanical finishing operation	Particulate Matter	*	
	(c) Lime/Plaster of Paris manufacture			
	Capacity:	Stack Height		
	Upto 5 tpd	-do-	Hood should be provided with a stack of 30 metre height from ground level (including Kiln height) H=14(Q) ^{0.3}	
			Where Q is	

emission rate of SO₂ in kg/hr and H = Stack Height in metres

more than 5 tpd and up to 40 tpd

Particulate

Matter 500 mg/Nm³

More than 40 tpd

-do-

150 mg/Nm³

Note: Oxygen reference level for particulate matter concentration calculations for Kilns mentioned at A(c) is 18% and for those at A(b), A(d), and A(e) is 8%.

* All possible preventive measures should be taken to control pollution as far as racticable.

The standard for sulphur dioxide in terms of stack height limits for kilns with arious capacities of coal consumption shall be as indicated below.

Coal Consumption per day	Stack Height (metre)	
Less than 8.5 MT	9	
More than 8.5 to 21 MT	12	
More than 21 to 42 MT	15	
More than 42 to 64 MT	18	
More than 64 to 104 MT	21	
More than 104 to 105 MT	24	
More than 105 to 126 MT	27	
More than 126 MT	30 or using formula.	
	□ 14(0) 0.3 which over is	

H -14(Q) 0.3 which ever is more

Note:

H = Physical stack height

Q = Sulphurdioxide emission, kg/hr

Source : EPA Notification [GER 475 (E), dt. 5.5.1992