

Sr. No.	Industry	Parameter	Standards
1	2	3	4
*60.	<b>MAN-MADE FIBRE INDUSTRY (SEMI-SYNTHETIC)</b>	<b>EFFLUENTS</b>	(Concentration in mg/l except for pH)
		pH	5.5 - 9.0
		Suspended Solids	100
		BOD <sup>1</sup> [3 days at 27°C]	30
		Zinc (as Zn)	1
61	<b>CERAMIC INDUSTRY</b>	<b>EMISSIONS</b>	(Concentration in mg/Nm <sup>3</sup> )
	<b>A. Kilns</b>		
	(a) Tunnel, Top Hat, Chamber	Particulate Matter	150
		Fluoride	10
		Chloride	100
		Sulphur dioxide	**
	(b) Down-draft	Particulate Matter	1200
		Fluoride	10
		Chloride	100
		Sulphur dioxide	**
	(c) Shuttle	Particulate Matter	150
		Fluoride	10
		Chloride	100
		Sulphur dioxide	**
	(d) Vertical Shaft Kiln	Particulate Matter	250
		Fluoride	10
		Sulphur dioxide	**
	(e) Tank furnace	Particulate Matter	150
		Fluoride	10
		Sulphur dioxide	**
	<b>B. Raw material handling, Processing and operations</b>		
	(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	*
	<b>C. Automatic Spray Unit</b>		
	(a) Dryers		
	(i) Fuel fired dryers	Particulate matter	150
	(ii) For heat recovery dryer	Particulate matter	*
	(b) Mechanical finishing operation	Particulate matter	*
	(c) Lime/Plasters of Paris manufacture		

\* Standards notified at Sr. No.2 may also be referred.

<sup>1</sup> Substituted by Rule 2 of the Environment (Protection) Amendment Rules, 1996 notified by G.S.R.176(E), dated 2.4.1996 may be read as BOD (3 days at 27°C) wherever BOD 5 days 20°C occurred.

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	Capacity :		
	Upto 5T/day	Stack Height	A. Hood should be provided with a stack of 30 meter height from ground level (including Kiln height)
	Above 5T/day	- do -	$H=14(Q)^{0.3}$ Where Q is emission rate of SO <sub>2</sub> in kg/hr and H=Stack in meters
	More than 5T/day	Particulate matter	500 mg/NM <sup>3</sup>
	and utp 40 T/day	Particulate matter	150 mg/NM <sup>3</sup>

**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(c) is 8%.

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

\*\* The standard for sulphur dioxide in terms of stack height limits for kilns with various capacities of coal consumption shall be as indicated below :

Coal consumed per day	Stack height
Less than 8.5 MT	9 m
More than 8.5 to 21 MT	12 m
More than 21 to 42 MT	15 m
More than 42 to 64 MT	18 m
More than 64 to 104 MT	21 m
More than 104 to 105 MT	24 m
More than 105 to 126 MT	27 m
More than 126 MT	30 m or using formula

$$H=14 (Q_g)^{0.3} \text{ (whichever is more)}$$

**Note :** In this notification

H—Physical height of the stack

Q<sub>g</sub>—Emission of sulphurdioxide in Kg/hr.

MT—Metric tones

m—meters