

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

## NOTIFICATION

New Delhi, the 9th November, 2018

**G.S.R. 1095(E).**—Whereas, certain draft rules, namely the Environment (Protection) Amendment Rules, 2018 were published in the Gazette of India, Extraordinary, as required under sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, *vide* notification of the Government of India in the Ministry of Environment, Forest and Climate Change *vide* number G.S.R. 35(E), dated the 17<sup>th</sup> January, 2018, inviting objections and suggestions from all persons likely to be affected thereby within a period of sixty days from the date on which copies of the Gazette containing the said notification were made available to the public;

And Whereas, copies of the Gazette containing the aforesaid notification were made available to the public on the 17<sup>th</sup> January, 2018;

And Whereas, objections and suggestions received from all persons and stakeholders in response to the aforesaid notification have been duly considered by the Central Government;

Now, therefore, in exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986) read with sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:-

1. **Short title and commencement.**—(1) These rules may be called the Environment (Protection) Fifth Amendment Rules, 2018.  
(2) They shall come into force on the date of their publication in the Official Gazette.
2. In the Environment (Protection) Rules, 1986, therein after referred to as the said rules, in Schedule-I,-

(i) for serial number 2 and the entries relating thereto, the following serial number and entries shall be substituted, namely:-

S. No. (1)	Industry (2)	Parameter (3)	Standards (4)			
<b>Environmental Standards for Man-Made Fibre Industry</b>						
“2.	Man-Made Fibre	<b>A. Effluent Standards</b>				
			Concentration not to exceed, (in mg/l except for pH and recovery of Sodium Sulphate)			
			Inland Surface Water	Land for Irrigation	Marine Discharge	
		pH	6.0-8.5	6.0-8.5	6.0-8.5	
		Suspended Solids (SS)	100	100	100	
		Biochemical Oxygen Demand (BOD - 3 days at 27°C)	30	100	100	
		Zinc	5	5	15	
		<b>Note:</b> The recovery of Sodium Sulphate shall not be less than 60% in Viscose Staple Fibre and Viscose Filament Yarn units.				
		<b>B. Emission Standards</b>				
			Concentration not to exceed, (in mg/Nm <sup>3</sup> )			
	Volatile Organic Compounds including Dimethyl Formamide and Acrylonitrile (applicable for Acrylic fibre units only)	50				

	<p><b>Note:</b></p> <p>(a) The concentration of Carbon Disulphide (CS<sub>2</sub>) and Hydrogen Sulphide (H<sub>2</sub>S) in work environment shall not exceed 10 ppm, individually.</p> <p>(b) The stack height shall be calculated  <math display="block">H = 11 Q^{0.41} - 3 V_s D U,</math> where Q - Emission rate of Carbon Disulphide, kg/hr;  V<sub>s</sub> - stack exit velocity, m/sec;  D - diameter of stack, m;  U - Annual average wind speed at top of stack, m/sec.</p> <p>(c) For new plants built after 31<sup>st</sup> December, 1998, a minimum of 80% of total emission shall pass through stacks and if the calculated stack height is less than 30 metres, a minimum height of 30 metres shall be provided, and in case there are more than one stack existing in the plant, following conditions may be met :-</p> <p>(i) the required height of all stacks shall be based on the maximum emission rate in any of the stacks i.e. the stacks emitting CS<sub>2</sub> emission shall be of same heights (based on the maximum emission rate);</p> <p>(ii) number of stacks shall not be increased as existing on 31<sup>st</sup> December, 1998, however, the number of stacks may be reduced by the industry;</p> <p>(iii) the distance between two nearest stacks should be at least three times of height of taller stack, in metres and if distance between two stacks is less, emission being emitted through such two stacks shall be considered as a single point source and height of the stacks shall be calculated considering emissions are being emitted through one stack;</p> <p>(iv) the industry shall install three air quality monitoring stations on the periphery (within boundary limits) of plant so as to monitor concentration of CS<sub>2</sub> and H<sub>2</sub>S in ambient air and the location of these stations shall be decided in consultation with concerned State Pollution Control Board, however in any case levels of CS<sub>2</sub> and H<sub>2</sub>S (24 hours daily average) shall not exceed 100 ug/m<sup>3</sup> and 150ug/m<sup>3</sup> respectively.”;</p>	
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(ii) serial numbers 60, 62 and 87 and the entries relating thereto shall be omitted.

3. In the said rules, in Schedule VI, -

(i) in Part B “Wastewater Generation Standards”, for serial number 6 and the entries relating thereto, the following serial number and entries shall be substituted, namely:-

S. No.	Industry	Quantum
“6	(a) Viscose Staple Fibre (VSF) Plant (b) Viscose Filament Yarn (VFY) Plant (c) Nylon Polyester (d) Acrylic- (i) Wet Process (ii) Dry Process	75 m <sup>3</sup> /tonne of fibre 150 m <sup>3</sup> /tonne of fibre 10 m <sup>3</sup> /tonne of fibre 25 m <sup>3</sup> /tonne of fibre 10 m <sup>3</sup> /tonne of fibre.”;

- (ii) in Part D.III. "Load/Mass based Standards", after serial number 10A relating to 'Cement Plant without co-processing' and the entries relating thereto, the following serial number and entries shall be inserted, namely:-

S. No.	Industry	Parameter	Standards
"11.	Manmade Fibre	A. Emission Standards	
(a)	Viscose Staple Fibre (VSF) Plant	Carbon Disulphide	95 kg/ tonne of VSF
		Hydrogen Sulphide	30 kg/ tonne of VSF
(b)	Viscose Filament Yarn (VFY) Plant	Carbon Disulphide	200 kg/ tonne of VFY
		Hydrogen Sulphide	30 kg/ tonne of VFY
(c)	Rayon, Polyester and Nylon fabric (Dipping process Plant only)	Ammonia	0.3 kg /tonne of dipped Fabric."

[F. No. Q-15017/40/2011-CPW]

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**Note :** The principal rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i) *vide* number S.O. 844(E), dated the 19th November, 1986 and last amended *vide* notification number G.S.R. 593(E), dated the 28th June, 2018.