

	(NOx)	
	पारा (Hg)	0.03 mg/Nm <sup>3</sup>

\* टीपीपी (इकाईयां) इस अधिसूचना के प्रकाशन की तारीख से दो वर्ष के भीतर परिसीमाओं को पूरा करेंगी।

\*\* इसके अंतर्गत सभी टीपीपी (इकाईयां) हैं, जिन्हें पर्यावरणीय निकासी प्रदान की गई है और संनिर्माण के अधीन है।

[फा. सं. क्यू-15017/40/2007-सीपीडब्ल्यू]

डा. राशिद हसन, सलाहकार

**टिप्पण :-** मूल नियम भारत के राजपत्र, असाधारण, भाग II, खंड 3, उपखंड (ii) में सं. का.आ. 844(अ) 19 नवंबर, 1986 द्वारा प्रकाशित किए गए थे और उनका पश्चातवर्ती का.आ. 433(अ) तारीख 18 अप्रैल, 1987 ; सा.का.नि. 176(अ) तारीख 2 अप्रैल, 1996; सा.का.नि. 97 (अ), तारीख 18 फरवरी, 2009 ; सा.का.नि. 149(अ) तारीख 4 मार्च, 2009 ; सा.का.नि. 543(अ) तारीख 22 जुलाई, 2009 ; सा.का.नि. 739(अ) तारीख 9 सितम्बर, 2010 ; सा.का.नि. 809(अ) तारीख 4 अक्टूबर, 2010, सा.का.नि. 215(अ) तारीख 15 मार्च, 2011 ; सा.का.नि. 221(अ) तारीख 18 मार्च, 2011 ; सा.का.नि. 354(अ) तारीख 2 मई, 2011 ; सा.का.नि. 424(अ) तारीख 1 जून, 2011 ; सा.का.नि. 446(अ) तारीख 13 जून, 2011 ; सा.का.नि. 152(अ) तारीख 16 मार्च, 2012 ; सा.का.नि. 266(अ) तारीख 30 मार्च, 2012 ; सा.का.नि. 277(अ) तारीख 31 मार्च, 2012; सा.का.नि. 820(अ) तारीख 9 नवम्बर, 2012 ; सा.का.नि. 176(अ) तारीख 18 मार्च, 2013 ; सा.का.नि. 535(अ) तारीख 7 अगस्त, 2013 ; सा.का.नि. 771(अ) तारीख 11 दिसम्बर, 2013 ; सा.का.नि. 2(अ) तारीख 2 जनवरी, 2014 ; सा.का.नि. 229(अ) तारीख 28 मार्च, 2014 ; सा.का.नि. 232(अ) तारीख 31 मार्च, 2014 ; सा.का.नि. 325(अ) तारीख 7 मई, 2014, सा.का.नि. 612(अ) तारीख 25 अगस्त, 2014 और अन्तिम संशोधन सा.का.नि. 789(अ) तारीख 11 नवम्बर, 2014 किया गया था।

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

### NOTIFICATION

New Delhi, the 7th December, 2015

**S.O. 3305(E).**— In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2015.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule - I, -

(a) after serial number 5 and entries relating thereto, the following serial number and entries shall be inserted, namely:—

Sr. No.	Industry	Parameter	Standards
1	2	3	4
5A.	Thermal Power Plant (Water consumption limit)	Water consumption	I. All plants with Once Through Cooling (OTC) shall install Cooling Tower (CT) and achieve specific water consumption upto maximum of 3.5m <sup>3</sup> /MWh within a period

			of two years from the date of publication of this notification.
			II. All existing CT-based plants reduce specific water consumption upto maximum of 3.5m <sup>3</sup> /MWh within a period of two years from the date of publication of this notification.
			III. New plants to be installed after 1 <sup>st</sup> January, 2017 shall have to meet specific water consumption upto maximum of 2.5 m <sup>3</sup> /MWh and achieve zero waste water discharged”;

(b) for serial number 25, and the entries related thereto, the following serial number and entries shall be substituted, namely:-

Sr. No.	Industry	Parameter	Standards
1	2	3	4
25.	Thermal Power Plant	TPPs ( units) installed before 31 <sup>st</sup> December, 2003*	
		Particulate Matter	100 mg/Nm <sup>3</sup>
		Sulphur Dioxide ( SO <sub>2</sub> )	600 mg/Nm <sup>3</sup> (Units Smaller than 500MW capacity units) 200 mg/Nm <sup>3</sup> (for units having capacity of 500MW and above)
		Oxides of Nitrogen ( NO <sub>x</sub> )	600 mg/Nm <sup>3</sup>
		Mercury ( Hg)	0.03 mg/Nm <sup>3</sup> (for units having capacity of 500MW and above)
		TPPs ( units) installed after 1 <sup>st</sup> January, 2003, upto 31 <sup>st</sup> December, 2016*	
		Particulate Matter	50 mg/Nm <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	600 mg/Nm <sup>3</sup> (Units Smaller than 500MW capacity units) 200 mg/Nm <sup>3</sup> (for units having capacity of 500MW and above)
		Oxides of Nitrogen ( NO <sub>x</sub> )	300 mg/Nm <sup>3</sup>
		Mercury ( Hg)	0.03 mg/Nm <sup>3</sup>
		TPPs ( units) to be installed from 1 <sup>st</sup> January, 2017**	
		Particulate Matter	30 mg/Nm <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	100 mg/Nm <sup>3</sup>
		Oxides of Nitrogen ( NO <sub>x</sub> )	100 mg/Nm <sup>3</sup>
		Mercury ( Hg)	0.03 mg/Nm <sup>3</sup>

\*TPPs (units) shall meet the limits within two years from date of publication of this notification.

\*\*Includes all the TPPs (units) which have been accorded environmental clearance and are under construction”.

[F. No. Q-15017/40/2007-CPW]

Dr. RASHID HASAN, Advisor

**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 19<sup>th</sup> November, 1986 and subsequently amended *vide* the following notifications:—

S.O. 433(E), dated 18<sup>th</sup> April 1987; G.S.R. 176(E) dated 2<sup>nd</sup> April, 1996; G.S.R. 97(E), dated the 18<sup>th</sup> February, 2009; G.S.R. 149(E), dated the 4<sup>th</sup> March, 2009; G.S.R. 543(E), dated 22<sup>nd</sup> July, 2009; G.S.R. 739(E), dated the 9<sup>th</sup> September, 2010; G.S.R. 809(E), dated, the 4<sup>th</sup> October, 2010; G.S.R. 215(E), dated the 15<sup>th</sup> March, 2011; G.S.R. 221(E), dated the 18<sup>th</sup> March, 2011; G.S.R. 354(E), dated the 2<sup>nd</sup> May, 2011; G.S.R. 424(E), dated the 1<sup>st</sup> June, 2011; G.S.R. 446(E), dated the 13<sup>th</sup> June, 2011; G.S.R. 152(E), dated the 16<sup>th</sup> March, 2012; G.S.R. 266(E), dated the 30<sup>th</sup> March, 2012; and G.S.R. 277(E), dated the 31<sup>st</sup> March, 2012; and G.S.R. 820(E), dated the 9<sup>th</sup> November, 2012; G.S.R. 176(E), dated the 18<sup>th</sup> March, 2013; G.S.R. 535(E), dated the 7<sup>th</sup> August, 2013; G.S.R. 771(E), dated the 11<sup>th</sup> December, 2013; G.S.R. 2(E), dated the 2<sup>nd</sup> January, 2014; G.S.R. 229(E), dated the 28<sup>th</sup> March, 2014; G.S.R. 232(E), dated the 31<sup>st</sup> March, 2014; G.S.R. 325(E), dated the 07<sup>th</sup> May, 2014, G.S.R. 612(E), dated the 25<sup>th</sup> August, 2014 and lastly amended *vide* notification G.S.R. 789(E), dated 11<sup>th</sup> November, 2014.

**MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE****CORRIGENDUM**

New Delhi, the 7th March, 2016

**S.O. 682(E).**—In the notification of the Government of India in the Ministry of Environment, Forest and Climate Change vide number S.O. 3305(E), dated the 7<sup>th</sup> December, 2015, published in the Gazette of India, Part II, Section 3, Sub-section (ii), in page 4, in the Table, against serial number 25, for “1<sup>st</sup> January, 2003” substitute “1<sup>st</sup> January, 2004”.

[F.No. Q-15017/40/2007-CPW]

Dr. RASHID HASAN, Advisor

## MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

## NOTIFICATION

New Delhi, the 28th June, 2018

**G.S.R. 593 (E).**—Whereas, a draft notification, for Thermal Power Plants was published in the Gazette of India, Extraordinary, vide notification of the Government of India in the erstwhile Ministry of Environment, Forest and Climate Change number G.S.R. 3337(E), dated the 16<sup>th</sup> October, 2017, 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 were made available to the public on the 16<sup>th</sup> October, 2017;

And Whereas, all objections and suggestions received from all persons and stakeholders in response to the draft 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. (1) These rules may be called the Environment (Protection) 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, in Schedule-I,-  
(a) against serial number 5A, in column 4, for item III, the following item shall be substituted, namely:-  
“III. Specific water consumption shall not exceed maximum of 3.0 m<sup>3</sup>/MWh for new plants installed after the 1<sup>st</sup> January, 2017 and these plants shall also achieve zero waste water discharge.”;  
(b) after serial number 5A and the entries relating thereto, the following serial number and entries shall be inserted, namely:-

Sl. No.	Industry	Parameter	Standards
1	2	3	4
“5B.	Thermal Power Plant (water consumption limit) using sea water	Water consumption	Items I to III in column 4 in serial number 5A above shall not be applicable to the Thermal Power Plants using sea water”;

- (c) in serial number 25, the following Note shall be inserted, namely:—

“**Note:** All monitored values for SO<sub>2</sub>, NO<sub>x</sub> and Particulate Matter shall be corrected to 6% Oxygen, on dry basis”;

- (d) after serial number 33 and the entries relating thereto, the following serial number and entries shall be inserted, namely:—

Sl. No.	Industry	Parameter	Standards
1	2	3	4

“33A.	Thermal Power Plants with wet Flue Gas Desulphurization (FGD)	Stack Height/Limit in Meters	<p>Power generation capacity:</p> <p>100 MW and above <math>H=6.902(QX0.277)^{0.555}</math></p> <p>or</p> <p>100 m minimum</p> <p>Less than 100 MW <math>H=6.902(QX0.277)^{0.555}</math></p> <p>or</p> <p>30 m whichever is more”;</p> <p>Q = Emission rate of SO<sub>2</sub> in kg/hr*</p> <p>H = Physical stack height in meter</p> <p>*total of the all Unit's connected to stack</p> <p><b>Note:</b> These standards shall apply to coal / lignite based Thermal Power Plants.”.</p>
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[F. No. Q-15017/40/2007-CPW]  
DR. A. SENTHIL VEL, Scientist 'G'

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 19<sup>th</sup> November, 1986 and last amended *vide* notification number G.S.R. 263(E), dated the 22<sup>nd</sup> March, 2018.

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