



**Pollution Control Board:: Assam  
Bamunimaidam; Guwahati-21**

(Department of Environment & Forests :: Government of Assam)  
Phone: 0361-2652774 & 2550258; Fax: 0361-2550259  
Website: [www.pcbassam.org](http://www.pcbassam.org)



No. WB/BONG/T-48/09-10/78

Dated Guwahati, the 16/10/ 2020

To

587  
M/s. Kailash Pati Cement Limited  
Bennibari Industrial Estate  
Howly, Bennibari, Pin-781315  
Dist.: Baksa (Assam).

**Sub: "Consent to Operate" upto 31<sup>st</sup> March, 2021 under Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.**

**Ref: Your online Application vide UAIN: PCB/F50/BP/010174/02/2020.**

Dear Sir,

With reference to your application in the name and style as mentioned above, the Board is pleased to grant the "**Consent to Operate**" under the **Water Act and Air Act, upto 31<sup>st</sup> March, 2021** under the terms and conditions as per **Appendix – A & B** enclosed.

You are also requested to apply for "**Consent to Operate**" for the year **2021–2022** within **November, 2020**.

Yours faithfully,

**Member Secretary (i/c)**

Memo No. WB/BONG/T-48/09-10/78-A,

Dated Guwahati the 16/10/ 2020

Copy to:

1. The Deputy Secretary, Environment & Forests Department, Govt. of Assam, Dispur, Guwahati-6 for favour of information.
2. The Deputy Commissioner, Baksa for favour of information.
3. The General Manager, DI&CC, Baksa for information.
4. The Addl. Chief Env. Engineer, Regional Office, Guwahati-2, Pollution Control Board, Assam for information & necessary action.

**Member Secretary (i/c)**



**MINISTRY OF ENVIRONMENT, FORESTS AND CLIMATE CHANGE  
NOTIFICATION**

New Delhi, the 25th August, 2014

**G.S.R. 612(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) (Fifth Amendment) Rules, 2014.
- (2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986,—

- (a) in Schedule I, for serial number 10 and entries relating thereto, the following serial number and entries shall be substituted, namely :—

S. No.	Industry	Parameter	Standards		
(1)	(2)	(3)	(4)		
"10"	Cement Plant (without coprocessing), Standalone Clinker Grinding Plant or, Blending Plant	Particulate Matter	<b>A.- Emission Standards</b>		
			<b>(i) Rotary Kiln - without coprocessing</b>		
			Date of Commissioning	Location	Concentration not to exceed, in mg/Nm <sup>3</sup>
			(a)	(b)	(c)
		on or after the date of notification	anywhere in the country	30 (with effect from 01.01.2016)	

			before the date of notification	critically polluted area or urban centres with population above 1.0 lakh or within its periphery of 5.0 kilometre radius	50 (with effect from 01.01.2015)
					30 (with effect from 01.06.2016)
				other than critically polluted area or urban centres	100 (with effect from 01.01.2015)
					30 (with effect from 01.06.2016)
		Sulphur Dioxide (SO <sub>2</sub> )	irrespective of date of commissioning	anywhere in the country	100
		Nitrogen Dioxide (NO <sub>2</sub> )	on or after the date of notification	anywhere in the country	600 (with effect from 01.06.2015)
			before the date of notification	anywhere in the country	800 (with effect from 01.01.2016)

(1)	(2)	(3)	(4)		
			(a)	(b)	(c)
			(ii) Vertical Shaft Kiln – (without coprocessing)		
		Particulate Matter (PM)	on or after the date of notification	anywhere in the country	50 (with effect from 01.06.2016)
			before the date of notification	critically polluted area or urban Centres with population above 1.0 lakh or within its periphery of 5 kilometre radius	100 (with effect from 01.06.2015)
				other than critically polluted area or urban centres	75 (with effect from 01.06.2016)
		Sulphur Dioxide (SO <sub>2</sub> )	-	-	150 (with effect from 01.01.2015)
		Nitrogen Dioxide (NO <sub>2</sub> )	-	-	200 (with effect from 01.01.2016)
					500 (with effect from 01.01.2016)

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**Note:—**

- a. The height of each stack including Clinker Grinding Plant, Coal Mill, Raw Mill, Grinding, Packaging Section, etc. shall be of a minimum of 30 metres or, as per the formula  $H=14(Q)^{0.3}$ , whichever is more, where "H" is the height of stack in metres and "Q" is the maximum quantity of SO<sub>2</sub> expected to be emitted in kg/hr through the stack at 100 per cent rated capacity of the plant and calculated as per the norms of gaseous emission.
- b. Above norms shall be applicable even if pet-coke is mixed with coal or, used alone for clinker making in kiln provided, pet-coke has been notified as 'approved fuel' by the concerned State Pollution Control Board/ Pollution Control Committee under the Air (Prevention and Control of Pollution) Act, 1981.
- c. All monitored values for SO<sub>2</sub> and NO<sub>2</sub> shall be corrected to 10% Oxygen, on dry basis. The norms for SO<sub>2</sub> and NO<sub>2</sub> shall be applicable to stacks attached to kiln.
- d. Scrubber meant for scrubbing emissions shall not be used as quencher. Plants having separate stack for gaseous emission for the scrubbing unit, the height of this stack shall be atleast equal to the main stack.

(1)	(2)	(3)	(4)
		<b>B.- Service wastewater- (without coprocessing)</b>	
		All efforts shall be made by the industry for 'zero discharge' of service wastewater. In case, the industry prefers to discharge service wastewater, the following norms shall be complied with:	
		<b>Concentration not to exceed, milligramme per litre (except pH and temperature)</b>	
		pH	5.5 to 9.0
		Suspended Solids	100
		Oil and Grease	10
		Temperature	not more than 5°C higher than the intake water temperature
		<b>C.- Stormwater</b>	
		(I) Stormwater shall not be allowed to mix with effluent, treated sewage, scrubber water and/ or floor washings.	
		(II) Stormwater within battery limits of industry shall be channelized through separate drain(s) as per natural gradient passing through high density polyethylene lined pit(s) each having holding capacity of 10 minutes (hourly average) of rainfall for its catchment area."	

(b) in Schedule VI, under 'PART- D' relating to General Emission Standards, in item III relating to Load/Mass based standards, after serial number 9, and the entries relating thereto, the following serial number and entries shall be inserted, namely :—

(1)	(2)	(3)	(4)
"10	Cement Plants (without coprocessing)	Rotary kiln based plants (Particulate Matter from raw mill, kiln and pre-calcliner system put together).	0.125 Kg/ tonne of clinker (with effect from 01.01.2017)
		Vertical shaft kiln based plants (Particulate Matter from raw mill and kiln put together)	0.50 Kg/ tonne of clinker (with effect from 01.01.2017).".

[F. No. Q-15017/30/2007-CPW]

DR. RASHID HASAN, Advisor

Note: —The principal rules were published in the Gazette of India vide number S.O. 844 (E), 19<sup>th</sup> November, 1986 and subsequently amended vide notifications numbers S.O. 433 (E), dated 18th April 1987; G.S.R. 97 (E), dated the 18th February, 2009; G.S.R. 149 (E), dated the 4th March, 2009; G.S.R. 739 (E), dated the 9th September, 2010; G.S.R. 809(E), dated, the 4th October, 2010, G.S.R. 215 (E), dated the 15th March, 2011; G.S.R. 221(E), dated the 18th March, 2011; G.S.R. 354 (E), dated the 2nd May, 2011; G.S.R. 424 (E), dated the 1st June, 2011; G.S.R. 446 (E), dated the 13th June, 2011; G.S.R. 152 (E), dated the 16th March, 2012; G.S.R. 266(E), dated the 30th March, 2012; and G.S.R. 277 (E), dated the 31st March, 2012; and G.S.R. 820(E), dated the 9th November, 2012; G.S.R. 176 (E), dated the 18th March, 2013; G.S.R. 535(E), dated the 7th August, 2013; G.S.R. 771(E), dated the 11th December, 2013; G.S.R. 2(E), dated the 2nd January, 2014; G.S.R. 229 (E), dated the 28th March, 2014; G.S.R. 232(E), dated the 31st March, 2014; and G.S.R. 325(E), dated the 7th May, 2014.

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE  
NOTIFICATION

New Delhi, the 9<sup>th</sup> May, 2016

G.S.R. 496(E).—In exercise of 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) Fourth Amendment Rules, 2016.  
(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, for serial number 10 and the entries relating to SO<sub>2</sub> and NO<sub>x</sub>, the following shall be substituted, namely:-

S. No	Industry	Parameter	Standards		
(1)	(2)	(3)	(4)		
"10.	Cement Plant (without co processing), Standalone Clinker Grinding Plant or, Blending Plant	A – Emission Standards			
		(i) Rotary Kiln –without co processing			
			Date of Commissioning	Location	Concentration not to exceed, in mg/Nm <sup>3</sup>
			(a)	(b)	(c)
		Sulphur Dioxide (SO <sub>2</sub> ) in mg/Nm <sup>3</sup>	Irrespective of date of commissioning	Anywhere in the country	100, 700 and 1000 when pyritic sulphur in the limestone is less than 0.25%, 0.25 to 0.5% and more than 0.5% respectively.
Oxides of Nitrogen (NO <sub>x</sub> ) in mg/Nm <sup>3</sup>	After the date of notification (25.8.2014)	Anywhere in the country	(1) 600		
	Before the date of notification (25.8.2014)	Anywhere in the country	(2) 800 for rotary kiln with In Line Calciner (ILC) technology.  (3) 1000 for rotary kiln using mixed stream of ILC, Separate Line Calciner (SLC) and suspension pre-heater technology or SLC technology alone or without calciner.		

- (i) The timeline for implementation of emission standards for all the parameters i.e. Sulphur Dioxide (SO<sub>2</sub>), Oxides of Nitrogen (NO<sub>x</sub>) and Particulate Matter (PM), with respect to Rotary Kiln without co-processing shall be up to the 31<sup>st</sup> March, 2017.
- (ii) The emission standards for Sulphur Dioxide (SO<sub>2</sub>) shall be reviewed after a period of five years from the date of notification of these rules.
- (iii) The word 'NO<sub>2</sub>' shall be substituted by 'NO<sub>x</sub>' wherever it occurs in the notification vide G.S.R. 612(E) dated 25<sup>th</sup> August, 2014."

[F. No. Q-15017/32/2007-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, namely:—

S.O. 433 (E), dated the 18<sup>th</sup> April 1987; G.S.R. 176(E), dated the 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 the 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; G.S.R. 789(E), dated the 11<sup>th</sup> November 2014; S.O. 3305(E), dated the 7<sup>th</sup> December, 2015; S.O.4(E), dated the 1<sup>st</sup> January 2016; G.S.R. 35(E), dated the 14<sup>th</sup> January 2016 and lastly amended *vide* notification G.S.R. 281 (E), dated the 7<sup>th</sup> March, 2016.

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

New Delhi, the 10th May, 2016

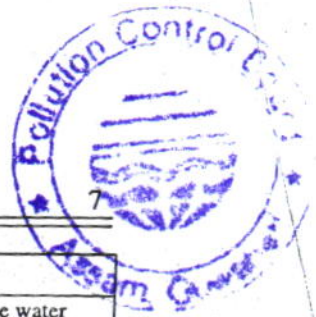
G.S.R. 497 (E). – In exercise of powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely :-

1. Short title and commencement - (1) These rules may be called the Environment (Protection) Third Amendment Rules, 2016.  
(2) They shall come into force on the date of their publication in the Official Gazette.
2. In the Environment (Protection) Rules, 1986,-  
(a) in schedule I, after serial number 10 and the entries relating thereto, the following serial number and entries shall be inserted, namely:-

"S. No. (1)	Industry (2)	Parameter (3)	Standards (4)		
			Date of Commissioning (a)	Location (b)	Concentration not to exceed, in mg/Nm <sup>3</sup> (c)
"10A.	Cement Plant with co-processing of wastes	A- Emission Standards			
		Rotary Kiln – with co-processing of Wastes			
		Particulate Matter (PM)*	on or after the date of notification (25.8.2014)	anywhere in the country	30
			before the date of notification (25.8.2014)	critically polluted area or urban centres with population above 1.0 lakh or within its periphery of 5.0 kilometer radius	30
				other than critically polluted area or urban centres	30
		SO <sub>2</sub> *	irrespective of date of commissioning	anywhere in the country	100, 700 and 1000 when pyritic sulphur in the limestone is less than 0.25%, 0.25 to 0.5% and more than 0.5% respectively.
		NO <sub>x</sub> *	After the date of notification (25.8.2014)	anywhere in the country	(1) 600
Before the date of notification	anywhere in the country		(2) 800 for rotary kiln with In Line Calciner		



	(25.8.2014)	(ILC) technology.  (3) 1000 for rotary kiln using mixed stream of ILC, Separate Line Calciner (SLC) and suspension pre-heater technology or SLC technology alone or without calciner.
	HCl	10 mg/Nm <sup>3</sup>
	HF	1 mg/Nm <sup>3</sup>
	TOC	10 mg/Nm <sup>3</sup> **
	Hg and its compounds	0.05 mg/Nm <sup>3</sup>
	Cd +Tl and their compounds	0.05 mg/Nm <sup>3</sup>
	Sb+As+Pb+Co+Cr+Cu+Mn+Ni+V and their compounds	0.5 mg/Nm <sup>3</sup>
	Dioxins and Furans	0.1 ngTEQ/ Nm <sup>3</sup>
	<p>Note: The abbreviations used in the Table shall mean as under: SO<sub>2</sub>- Sulphur dioxide; NO<sub>x</sub> - Oxides of Nitrogen; HCl – Hydrogen Chloride; HF – Hydrogen Flouride; TOC - Total Organic Carbon; Hg – Mercury; Cd – Cadmium; Tl – Thallium; Sb – Antimony; As – Arsenic; Pb – Lead; Co – Cobalt; Cr – Chromium; Cu – Copper; Mn – Manganese; Ni – Nickel; and V - Vanadium.”;</p> <p>* The concentration values and timeline for implementation in respect of PM, SO<sub>2</sub> and NO<sub>x</sub> shall be governed in accordance with the provisions under notification published vide GSR No. 612 (E), dated the 25<sup>th</sup> August, 2014 and amended from time to time.</p> <p>**Permitting authority may prescribe separate standards on case to case basis, if Total Organic Carbon (TOC) does not result from the co-processing of waste.</p> <p>(a) The height of each individual stack connected to Kiln, Clinker Cooler, Cement Mill, Coal Mill, Raw Mill, Packaging section, etc. shall be of a minimum of 30 metres or, as per the formula <math>H = 14 (Q1)^{0.3}</math> and <math>H = 74 (Q2)^{0.27}</math> whichever is more, where “H” is the height of stack in metres and “Q1” is the maximum quantity of SO<sub>2</sub> expected to be emitted in kg/hr and “Q2” is the maximum quantity of PM expected to be emitted in tonnes/hr through the stack at 100 percent rated capacity of the plant;</p> <p>(b) The monitored values of SO<sub>2</sub>, NO<sub>x</sub>, HCl, HF, TOC, Metals and Dioxins and Furans at main kiln stack shall be corrected to 10% Oxygen, on dry basis and the norms for SO<sub>2</sub>, NO<sub>x</sub>, HCl, HF, TOC, Metals and Dioxins and Furans shall be applicable to main kiln stack and the norms for Particulate Matter (PM) shall be applicable to all the stacks in the plant. PM, SO<sub>2</sub>, NO<sub>x</sub> shall be monitored continuously. HCl, HF, TOC, Metals and Dioxins and Furans shall be monitored once in a year;</p> <p>(c) Scrubber meant for scrubbing emissions shall not be used as quencher and plants having separate stack for gaseous emission for the scrubbing unit, the height of this stack shall be at least equal to the main stack.</p>	
	<p><b>B- Service waste water (with co-processing of wastes)</b> All efforts shall be made by the industry for ‘zero discharge’ of service wastewater and in case, the industry prefers to discharge service wastewater, the following norms shall be complied with:</p>	
		Concentration not to exceed, milligram per litre (except pH and temperature)
	pH	5.5 to 9.0
	Suspended Solids	100



	Oil and Grease	10
	Temperature	not more than 5°C higher than the intake water temperature
	<b>C- Storm water</b>	
	(I) Storm-water shall not be allowed to mix with effluent, treated sewage, scrubber water and or or floor washings.	
	(II) Storm-water within battery limits of industry shall be channelised through separate drain(s)."	

- (b) in Schedule VI, under 'Part-D' relating to General Emission Standards, in item III relating to Load or Mass based standards, after serial number 10 and the entries relating thereto, the following serial number and entries shall be inserted, namely:-

(1)	(2)	(3)	(4)
"10A	Cement Plants (with co-processing)	Rotary kiln based plants (Particulate Matter from raw mill, kiln and pre-calciner system put together)	0.125 kg/ tonne of clinker."

[F. No.- Q-15017/30/2007-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, namely:-

S.O. 433 (E), dated the 18<sup>th</sup> April 1987; G.S.R. 176(E), dated the 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 the 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; G.S.R. 789(E), dated the 11<sup>th</sup> November 2014; S.O. 3305(E), dated the 7<sup>th</sup> December, 2015; S.O.4(E), dated the 1<sup>st</sup> January 2016; G.S.R. 35(E), dated the 14<sup>th</sup> January 2016 and lastly amended vide notification G.S.R. 281 (E), dated the 7<sup>th</sup> March, 2016.