



## AMBIENT AIR QUALITY TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

Vill: Mynkree, 116 KM Stone, NH- 44

Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(NOVEMBER - 2015)

<b>LOCATIONS</b> ↓	<b>Date of Sampling</b>	<b>PM 2.5 (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>PM 10 (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>NO<sub>2</sub> (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>SO<sub>2</sub> (<math>\mu\text{g}/\text{m}^3</math>)</b>
<b>LIMITS</b> →	--	<b>60</b> (24 hrs. Average)	<b>100</b> (24 hrs. Average)	<b>80</b> (24 hrs. Average)	<b>80</b> (24 hrs. Average)
In- Front of Guest House	23.11.2015	26.54	65.23	10.24	ND
Near Crusher Area	23.11.2015	49.24	80.47	20.48	06.45
In- Front of Compressor House (Cement Mill)	24.11.2015	43.54	72.56	17.56	08.12

Analysis Protocol: **IS 5182**

**ND:** Not Detected

Checked By: Pankaj Baroi; ENVIROCON

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  3. This test report shall not be reproduced except in full without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi - 786171, Assam.



## STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

Vill: Mynkree, 116 KM Stone, NH- 44

Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(NOVEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/01/Nov/2015
02	Date of Sampling	23.11.2015
03	Material of Construction	M.S.
04	Stack Attached To	B.F. of Crusher
05	Flue Gas Temperature (°C)	37
06	Exit Velocity of Gas (m/sec)	5.3
07	Flow Rate (Nm <sup>3</sup> /hr)	14,407
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	42.9



Checked By: Pankaj Baroi; ENVIROCON

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Meghalaya

(NOVEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/02/Nov/2015
02	Date of Sampling	23.11.2015
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	179
06	Exit Velocity of Gas (m/sec)	14.9
07	Flow Rate (Nm <sup>3</sup> /hr)	2,500,09
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	37.8

Pankaj Baroi

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## STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED


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Meghalaya

(NOVEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/03/Nov/2015
02	Date of Sampling	24.11.2015
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	68
06	Exit Velocity of Gas (m/sec)	8.7
07	Flow Rate (Nm <sup>3</sup> /hr)	30,959
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	38.5



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## STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

Vill: Mynkree, 116 KM Stone, NH- 44

Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(NOVEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/04/Nov/2015
02	Date of Sampling	24.11.2015
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	239
06	Exit Velocity of Gas (m/sec)	16.4
07	Flow Rate (Nm <sup>3</sup> /hr)	2,116,19
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	36.8



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Meghalaya

(NOVEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/05/Nov/2015
02	Date of Sampling	25.11.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	67
06	Exit Velocity of Gas (m/sec)	9.7
07	Flow Rate (Nm <sup>3</sup> /hr)	34,619
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	36.7



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(NOVEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/06/Nov/2015
02	Date of Sampling	25.11.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Packing House
05	Flue Gas Temperature (°C)	31
06	Exit Velocity of Gas (m/sec)	2.9
07	Flow Rate (Nm <sup>3</sup> /hr)	5,145
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	34.2



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## NOISE LEVEL MEASUREMENT RESULTS

M/s HILLS CEMENT COMPANY LIMITED

Vill: Mynkree, 116 KM Stone, NH- 44

Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(NOVEMBER- 2015)

Measurement Date: 24.11.2015

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	73	65	69
2	Near CCR Building	63	60	62
3	Main Gate	68	65	67
4	Near Main Building	61	57	59

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	64	61	63
2	Near CCR Building	59	55	57
3	Main Gate	61	57	59
4	Near Main Building	56	50	53



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## AMBIENT NOISE LEVEL STANDARDS

### SCHEDULE

[Rule 3(1) and 4(1) of Noise Pollution (Regulation & Control) Rules, 2000]

Area Code	Category of Area/ Zone	Limit in dB (A) in Leq	
		Day Time	Night Time
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

**NB:**

Silence Zone is an area comprising an area not less than 100 m around Hospitals, Educational Institutions, Courts, Religious Places or any other area which is declared as such by the competent authority.

### Specific SHE Standard: Workplace Noise

Ambient Noise Level	Personal Noise Exposure < 85 dB (A) Leq (8h)	Personal Noise Exposure => 85 dB (A) Leq (8h)
< 85 dB (A) Leq	No action required	PPE Mandatory
=> 85dB (A) Leq < 90 dB (A) Leq	Hearing protection zone. PPE Advisory.	Hearing protection zone. PPE Mandatory.
=> 90 dB (A) Leq	Hearing protection zone. PPE Mandatory.	Hearing protection zone. PPE Mandatory.

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