



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

(JULY - 2015)

LOCATIONS ↓	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)
LIMITS →	--	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)
In- Front of Guest House	28.08.2015	22.18	60.17	07.36	ND
Near Crusher Area	28.08.2015	45.44	72.91	15.45	06.31
In- Front of Compressor House (Cement Mill)	29.08.2015	42.28	69.36	14.45	05.36

Analysis Protocol: **IS 5182**

ND: Not Detected

Handwritten signature of Pankaj Baroi in blue ink, overlaid on a circular purple stamp. The stamp contains the text "ENVIROCON" at the top and "DIGBOI" at the bottom, with a star in the center.

Checked By: Pankaj Baroi; ENVIROCON

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 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

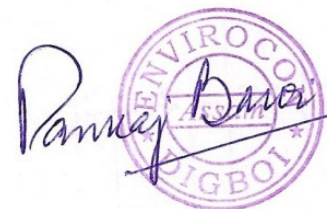
Vill: Mynkree, 116 KM Stone, NH- 44

Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(JULY - 2015)

01	Stack Emission Ref. No.	ENV/HCCL/01/July/2015
02	Date of Sampling	28.07.2015
03	Material of Construction	M.S.
04	Stack Attached To	B.F. of Crusher
05	Flue Gas Temperature (°C)	38
06	Exit Velocity of Gas (m/sec)	6.1
07	Flow Rate (Nm ³ /hr)	16,529
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	43.6



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Meghalaya

(JULY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/02/July/2015
02	Date of Sampling	28.07.2015
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	172
06	Exit Velocity of Gas (m/sec)	14.2
07	Flow Rate (Nm ³ /hr)	2,42,011
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	36.1

Pankaj Baroi

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**STACK EMISSION TEST RESULTS**

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Meghalaya

(JULY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/03/July/2015
02	Date of Sampling	28.07.2015
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	64
06	Exit Velocity of Gas (m/sec)	9.2
07	Flow Rate (Nm ³ /hr)	33,127
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	40.3

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**STACK EMISSION TEST RESULTS**

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Meghalaya

(JULY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/04/July/2015
02	Date of Sampling	29.07.2015
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	235
06	Exit Velocity of Gas (m/sec)	16.4
07	Flow Rate (Nm ³ /hr)	2,13,285
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	30.8

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(JULY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/05/July/2015
02	Date of Sampling	29.07.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	63
06	Exit Velocity of Gas (m/sec)	8.7
07	Flow Rate (Nm ³ /hr)	31,420
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	42.5

Pankaj Baroi

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(JULY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/06/July/2015
02	Date of Sampling	29.07.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Packing House
05	Flue Gas Temperature (°C)	33
06	Exit Velocity of Gas (m/sec)	4.1
07	Flow Rate (Nm ³ /hr)	7,226
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	41.5

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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

(JULY- 2015)

Measurement Date: **29.07.2015**

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	80	71	76
2	Near CCR Building	70	63	66
3	Main Gate	71	63	68
4	Near Main Building	68	56	64

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	74	65	69
2	Near CCR Building	62	51	56
3	Main Gate	68	52	64
4	Near Main Building	61	48	54


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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.
