



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

(APRIL - 2015)

LOCATIONS ↓	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	NO₂ ($\mu\text{g}/\text{m}^3$)	SO₂ ($\mu\text{g}/\text{m}^3$)
LIMITS →	--	60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)
In- Front of Guest House	27.04.2015	30.24	69.74	12.34	ND
Near Crusher Area	27.04.2015	54.61	80.12	16.03	05.96
In- Front of Compressor House (Cement Mill)	28.04.2015	47.11	74.97	17.01	06.27

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

(APRIL - 2015)

01	Stack Emission Ref. No.	ENV/HCCCL/01/April/2015
02	Date of Sampling	27.04.2015
03	Material of Construction	M.S.
04	Stack Attached To	B.F. of Crusher
05	Flue Gas Temperature (°C)	35
06	Exit Velocity of Gas (m/sec)	3.9
07	Flow Rate (Nm ³ /hr)	10,670
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	40.1

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**STACK EMISSION TEST RESULTS**

M/s HILLS CEMENT COMPANY LIMITED

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Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(APRIL- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/02/April/2015
02	Date of Sampling	27.04.2015
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	169
06	Exit Velocity of Gas (m/sec)	12.8
07	Flow Rate (Nm ³ /hr)	2,19,632
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	32.8

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M/s HILLS CEMENT COMPANY LIMITED

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Meghalaya

(APRIL- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/03/April/2015
02	Date of Sampling	28.04.2015
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	62
06	Exit Velocity of Gas (m/sec)	8.9
07	Flow Rate (Nm ³ /hr)	32,238
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	38.4

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**STACK EMISSION TEST RESULTS**

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Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(APRIL- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/04/April/2015
02	Date of Sampling	28.04.2015
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	215
06	Exit Velocity of Gas (m/sec)	15.4
07	Flow Rate (Nm ³ /hr)	2,08,488
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	29.8

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**STACK EMISSION TEST RESULTS**

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Meghalaya

(APRIL- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/05/April/2015
02	Date of Sampling	28.04.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	60
06	Exit Velocity of Gas (m/sec)	7.8
07	Flow Rate (Nm ³ /hr)	28,424
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	37.4

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STACK EMISSION TEST RESULTS

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Meghalaya

(APRIL- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/06/April/2015
02	Date of Sampling	27.04.2015
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)	3.5
07	Flow Rate (Nm ³ /hr)	6,169
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	40.3

Pankaj Baroi

Checked By: Pankaj Baroi; ENVIROCON

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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

(APRIL- 2015)

Measurement Date: **28.04.2015**

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	80	73	75
2	Near CCR Building	68	60	67
3	Main Gate	73	65	70
4	Near Main Building	67	52	65

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	77	68	70
2	Near CCR Building	59	51	55
3	Main Gate	66	52	60
4	Near Main Building	57	50	53

Pankaj Baroi

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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.
