



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

(SEPTEMBER - 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	21.09.2015	23.26	59.44	07.54	ND
Near Crusher Area	21.09.2015	44.56	74.31	15.89	04.88
In- Front of Compressor House (Cement Mill)	22.09.2015	39.58	67.54	14.78	06.01

Analysis Protocol: **IS 5182**

ND: Not Detected

Checked By: Pankaj Baroi; ENVIROCON

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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

(SEPTEMBER - 2015)

01	Stack Emission Ref. No.	ENV/HCCL/01/Sept/2015
02	Date of Sampling	21.09.2015
03	Material of Construction	M.S.
04	Stack Attached To	B.F. of Crusher
05	Flue Gas Temperature (°C)	36
06	Exit Velocity of Gas (m/sec)	5.1
07	Flow Rate (Nm ³ /hr)	13,908
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	44.3

Pankaj Baroi

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Meghalaya

(SEPTEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/02/Sept/2015
02	Date of Sampling	21.09.2015
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	176
06	Exit Velocity of Gas (m/sec)	14.1
07	Flow Rate (Nm ³ /hr)	2,398,55
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	35.9

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Meghalaya

(SEPTEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/03/Sept/2015
02	Date of Sampling	22.09.2015
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	69
06	Exit Velocity of Gas (m/sec)	9.6
07	Flow Rate (Nm ³ /hr)	34,062
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	39.4

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Meghalaya

(SEPTEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/04/Sept/2015
02	Date of Sampling	22.09.2015
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	238
06	Exit Velocity of Gas (m/sec)	16.9
07	Flow Rate (Nm ³ /hr)	2,184,98
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	30.2

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Meghalaya

(SEPTEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/05/Sept/2015
02	Date of Sampling	23.09.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	69
06	Exit Velocity of Gas (m/sec)	10.2
07	Flow Rate (Nm ³ /hr)	36,191
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	41.5



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(SEPTEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/06/Sept/2015
02	Date of Sampling	23.09.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Packing House
05	Flue Gas Temperature (°C)	34
06	Exit Velocity of Gas (m/sec)	3.9
07	Flow Rate (Nm ³ /hr)	6,851
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	39.4



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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

(SEPTEMBER- 2015)

Measurement Date: 23.09.2015

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	79	71	75
2	Near CCR Building	66	60	63
3	Main Gate	68	63	66
4	Near Main Building	64	58	61

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	72	64	68
2	Near CCR Building	60	54	56
3	Main Gate	63	54	59
4	Near Main Building	57	51	54



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2. Results refer only to the particular parameters tested.



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.
