



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

(JANUARY - 2016)

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	21.01.2016	34.25	65.28	08.47	ND
Near Crusher Area	21.01.2016	55.14	78.21	17.91	08.24
In- Front of Compressor House (Cement Mill)	22.01.2016	51.25	69.28	15.48	05.69

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

(JANUARY- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/01/Jan/2016
02	Date of Sampling	21.01.2016
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)	5.2
07	Flow Rate (Nm ³ /hr)	14,135
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	43.5



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Meghalaya

(JANUARY- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/02/Jan/2016
02	Date of Sampling	21.01.2016
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)	14.2
07	Flow Rate (Nm ³ /hr)	2,382,63
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	40.2

Pankaj Baroi

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Meghalaya

(JANUARY- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/03/Jan/2016
02	Date of Sampling	22.01.2016
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)	8.9
07	Flow Rate (Nm ³ /hr)	31,671
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	35.9



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Meghalaya

(JANUARY- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/04/Jan/2016
02	Date of Sampling	22.01.2016
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	237
06	Exit Velocity of Gas (m/sec)	15.9
07	Flow Rate (Nm ³ /hr)	2,059,72
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	41.9



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Meghalaya

(JANUARY- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/05/Jan/2016
02	Date of Sampling	23.01.2016
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	68
06	Exit Velocity of Gas (m/sec)	9.5
07	Flow Rate (Nm ³ /hr)	33,806
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	36.7



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(JANUARY- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/06/Jan/2016
02	Date of Sampling	23.01.2016
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)	4.1
07	Flow Rate (Nm ³ /hr)	7,203
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	37.8



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NOISE LEVEL MEASUREMENT RESULTS

M/s HILLS CEMENT COMPANY LIMITED

Vill: Mynkree, 116 KM Stone, NH- 44

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Meghalaya

(JANUARY- 2016)

Measurement Date: 23.01.2016

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	74	64	69
2	Near CCR Building	71	64	68
3	Main Gate	69	63	66
4	Near Main Building	62	58	60

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	60	58	59
2	Near CCR Building	63	56	60
3	Main Gate	62	54	58
4	Near Main Building	55	51	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.
