



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 - 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	26.04.2016	29.7	66.4	7.3	ND
Near Crusher Area	27.04.2016	50.6	81.3	12.6	ND
In- Front of Compressor House (Cement Mill)	27.04.2016	46.8	71.7	15.3	ND

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

(APRIL- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/01/Apr/2016
02	Date of Sampling	26.04.2016
03	Material of Construction	M.S.
04	Stack Attached To	B.F. of Crusher
05	Flue Gas Temperature (°C)	33
06	Exit Velocity of Gas (m/sec)	3.9
07	Flow Rate (Nm ³ /hr)	10,740
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	38.2



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STACK EMISSION TEST RESULTS

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Meghalaya

(APRIL- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/02/Apr/2016
02	Date of Sampling	26.04.2016
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	184
06	Exit Velocity of Gas (m/sec)	12.8
07	Flow Rate (Nm ³ /hr)	2,12,423
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	30.9

Pankaj Baroi

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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- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/04/Apr/2016
02	Date of Sampling	27.04.2016
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	61
06	Exit Velocity of Gas (m/sec)	8.9
07	Flow Rate (Nm ³ /hr)	32,335
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	35.3

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**STACK EMISSION TEST RESULTS**

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Meghalaya

(APRIL- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/03/Apr/2016
02	Date of Sampling	26.04.2016
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	221
06	Exit Velocity of Gas (m/sec)	15.4
07	Flow Rate (Nm ³ /hr)	2,05,956
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	26.4

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STACK EMISSION TEST RESULTS

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Meghalaya

(APRIL- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/05/Apr/2016
02	Date of Sampling	27.04.2016
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)	7.8
07	Flow Rate (Nm ³ /hr)	28,170
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	36.4



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Meghalaya

(APRIL- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/06/Apr/2016
02	Date of Sampling	27.04.2016
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)	3.5
07	Flow Rate (Nm ³ /hr)	6,149
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	36.1

ENVIROCON
DIGBOI

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

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Meghalaya

(APRIL- 2016)

Measurement Date: **26.04.2016**

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	77	73	75
2	Near CCR Building	69	67	68
3	Main Gate	69	62	65
4	Near Main Building	66	61	64

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	72	68	70
2	Near CCR Building	61	55	57
3	Main Gate	57	52	54
4	Near Main Building	52	46	49



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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.
