



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

(NOVEMBER - 2016)

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	17.11.2016	35.4	72.1	ND	ND
Near Crusher Area	17.11.2016	52.1	87.3	17.2	9.7
In- Front of Compressor House (Cement Mill)	18.11.2016	48.6	81.5	13.5	8.1

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

(NOVEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCCL/01/NOV/2016
02	Date of Sampling	17.11.2016
03	Material of Construction	M.S.
04	Stack Attached To	B.F. of Crusher
05	Flue Gas Temperature (°C)	34
06	Exit Velocity of Gas (m/sec)	4.6
07	Flow Rate (Nm ³ /hr)	12,627
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	37.2

Pankaj Baroi

Checked By: Pankaj Baroi; ENVIROCON

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Meghalaya

(NOVEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCC/02/NOV/2016
02	Date of Sampling	17.11.2016
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	182
06	Exit Velocity of Gas (m/sec)	13.5
07	Flow Rate (Nm ³ /hr)	2,25,025
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	32.7

Pankaj Baroi

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**STACK EMISSION TEST RESULTS**

M/s HILLS CEMENT COMPANY LIMITED

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Meghalaya

(NOVEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCCL/03/NOV/2016
02	Date of Sampling	17.11.2016
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)	8.4
07	Flow Rate (Nm ³ /hr)	30,518
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	37.1

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STACK EMISSION TEST RESULTS

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Meghalaya

(NOVEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCCL/04/NOV/2016
02	Date of Sampling	18.11.2016
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	198
06	Exit Velocity of Gas (m/sec)	14.8
07	Flow Rate (Nm ³ /hr)	2,07,597
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	29.3



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Meghalaya

(NOVEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/05/NOV/2016
02	Date of Sampling	18.11.2016
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	59
06	Exit Velocity of Gas (m/sec)	8.2
07	Flow Rate (Nm ³ /hr)	29,971
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	34.8

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(NOVEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCCL/06/NOV/2016
02	Date of Sampling	18.11.2016
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)	5.9
07	Flow Rate (Nm ³ /hr)	10,399
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	37.2

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NOISE LEVEL MEASUREMENT RESULTS

M/s HILLS CEMENT COMPANY LIMITED

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Meghalaya

(NOVEMBER- 2016)

Measurement Date: **17.11.2016**

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	75	70	72
2	Near CCR Building	74	65	70
3	Main Gate	72	66	69
4	Near Main Building	66	60	64

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	69	62	65
2	Near CCR Building	57	52	54
3	Main Gate	62	56	57
4	Near Main Building	58	50	55



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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.
