



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

(MARCH- 2017)

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	15.03.2017	31.4	68.1	ND	ND
Near Crusher Area	15.03.2017	47.7	72.6	13.2	11.8
In- Front of Compressor House (Cement Mill)	16.03.2017	42.8	70.3	10.5	9.7

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

(MARCH- 2017)

01	Stack Emission Ref. No.	ENV/HCCCL/01/MARCH/2017
02	Date of Sampling	15.03.2017
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)	4.3
07	Flow Rate (Nm ³ /hr)	11,765
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	36.1

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STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED


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Meghalaya

(MARCH- 2017)

01	Stack Emission Ref. No.	ENV/HCCL/04/MARCH/2017
02	Date of Sampling	16.03.2017
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)	16.3
07	Flow Rate (Nm ³ /hr)	2,71,696
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	31.2



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STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

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Meghalaya

(MARCH- 2017)

01	Stack Emission Ref. No.	ENV/HCCL/02/MARCH/2017
02	Date of Sampling	15.03.2017
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)	9.2
07	Flow Rate (Nm ³ /hr)	33,325
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	33.7



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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

(MARCH- 2017)

01	Stack Emission Ref. No.	ENV/HCCL/05/MARCH/2017
02	Date of Sampling	16.03.2017
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	209
06	Exit Velocity of Gas (m/sec)	14.8
07	Flow Rate (Nm ³ /hr)	2,02,860
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	28.1



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STACK EMISSION TEST RESULTS

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Meghalaya

(MARCH- 2017)

01	Stack Emission Ref. No.	ENV/HCCL/06/MARCH/2017
02	Date of Sampling	16.03.2017
03	Material of Construction	M.S
04	Stack Attached To	Cement 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	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	37.2



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STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

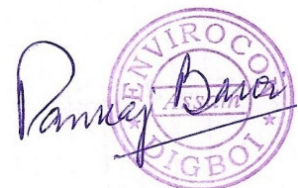
Vill: Mynkree, 116 KM Stone, NH- 44

Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(MARCH- 2017)

01	Stack Emission Ref. No.	ENV/HCCL/03/MARCH/2017
02	Date of Sampling	15.03.2017
03	Material of Construction	M.S
04	Stack Attached To	Cement Packing House
05	Flue Gas Temperature (°C)	37
06	Exit Velocity of Gas (m/sec)	5.9
07	Flow Rate (Nm ³ /hr)	10,264
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	39.3



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NOISE LEVEL MEASUREMENT RESULTS

M/s HILLS CEMENT COMPANY LIMITED

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Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(MARCH- 2017)

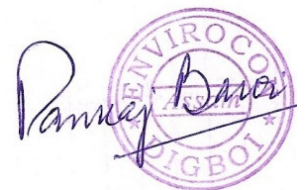
Measurement Date: **15.03.2017**

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	74	69	72
2	Near CCR Building	72	64	70
3	Main Gate	71	65	68
4	Near Main Building	68	62	65

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	68	61	65
2	Near CCR Building	65	58	62
3	Main Gate	66	60	61
4	Near Main Building	57	50	54



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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.
