



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

(OCTOBER - 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	18.10.2016	32.6	70.1	ND	ND
Near Crusher Area	18.10.2016	51.2	89.6	15.8	9.6
In- Front of Compressor House (Cement Mill)	19.10.2016	45.7	82.5	12.4	7.4

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

(OCTOBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/04/OCT/2016
02	Date of Sampling	19.10.2016
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)	4.5
07	Flow Rate (Nm ³ /hr)	12,392
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	35.8

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**STACK EMISSION TEST RESULTS**

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Meghalaya

(OCTOBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/05/OCT/2016
02	Date of Sampling	19.10.2016
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)	11.6
07	Flow Rate (Nm ³ /hr)	1,94,638
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	29.4

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**STACK EMISSION TEST RESULTS**

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Meghalaya

(OCTOBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/01/OCT/2016
02	Date of Sampling	18.10.2016
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	64
06	Exit Velocity of Gas (m/sec)	7.9
07	Flow Rate (Nm ³ /hr)	28,446
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	33.1

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**STACK EMISSION TEST RESULTS**

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Meghalaya

(OCTOBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/06/OCT/2016
02	Date of Sampling	17.08.2016
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	208
06	Exit Velocity of Gas (m/sec)	15.2
07	Flow Rate (Nm ³ /hr)	2,08,775
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	28.4

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STACK EMISSION TEST RESULTS

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Meghalaya

(OCTOBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/02/OCT/2016
02	Date of Sampling	18.10.2016
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)	8.7
07	Flow Rate (Nm ³ /hr)	31,420
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	36.7



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(OCTOBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/03/OCT/2016
02	Date of Sampling	18.10.2016
03	Material of Construction	M.S
04	Stack Attached To	Cement Packing House
05	Flue Gas Temperature (°C)	36
06	Exit Velocity of Gas (m/sec)	6.4
07	Flow Rate (Nm ³ /hr)	11,170
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	38.1



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NOISE LEVEL MEASUREMENT RESULTS

M/s HILLS CEMENT COMPANY LIMITED

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Meghalaya

(OCTOBER- 2016)

Measurement Date: **18.10.2016**

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	76	71	74
2	Near CCR Building	72	66	70
3	Main Gate	74	64	68
4	Near Main Building	65	59	62

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	70	64	66
2	Near CCR Building	58	50	54
3	Main Gate	60	53	56
4	Near Main Building	55	45	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.
