



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 - 2015)

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	12.10.2015	24.69	62.98	08.98	ND
Near Crusher Area	12.10.2015	47.69	79.23	17.31	05.34
In- Front of Compressor House (Cement Mill)	13.10.2015	41.56	69.87	15.26	07.98

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- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/01/October/2015
02	Date of Sampling	12.10.2015
03	Material of Construction	M.S.
04	Stack Attached To	B.F. of Crusher
05	Flue Gas Temperature (°C)	39
06	Exit Velocity of Gas (m/sec)	5.9
07	Flow Rate (Nm ³ /hr)	15,935
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	46.9



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Meghalaya

(OCTOBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/02/October/2015
02	Date of Sampling	12.10.2015
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	181
06	Exit Velocity of Gas (m/sec)	15.7
07	Flow Rate (Nm ³ /hr)	2,622,72
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	39.4



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Meghalaya

(OCTOBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/03/October/2015
02	Date of Sampling	13.10.2015
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	71
06	Exit Velocity of Gas (m/sec)	10.1
07	Flow Rate (Nm ³ /hr)	35,628
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	40.5



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STACK EMISSION TEST RESULTS

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Meghalaya

(OCTOBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/04/October/2015
02	Date of Sampling	13.10.2015
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	235
06	Exit Velocity of Gas (m/sec)	15.3
07	Flow Rate (Nm ³ /hr)	1,989,80
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	33.1



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Meghalaya

(OCTOBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/05/October/2015
02	Date of Sampling	14.10.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	65
06	Exit Velocity of Gas (m/sec)	9.4
07	Flow Rate (Nm ³ /hr)	33,747
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	39.6



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Meghalaya

(OCTOBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/06/October/2015
02	Date of Sampling	14.10.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Packing House
05	Flue Gas Temperature (°C)	32
06	Exit Velocity of Gas (m/sec)	3.1
07	Flow Rate (Nm ³ /hr)	5,482
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	36.1



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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

(OCTOBER- 2015)

Measurement Date: 14.10.2015

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	77	69	73
2	Near CCR Building	65	62	64
3	Main Gate	70	66	68
4	Near Main Building	60	56	58

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	68	62	65
2	Near CCR Building	58	53	55
3	Main Gate	60	54	56
4	Near Main Building	54	50	52




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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.
