



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

(DECEMBER - 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	28.12.2015	30.54	69.25	09.89	ND
Near Crusher Area	28.12.2015	51.23	79.98	18.95	07.56
In- Front of Compressor House (Cement Mill)	29.12.2015	46.58	71.87	16.44	06.58

Analysis Protocol: **IS 5182**

ND: Not Detected

Checked By: Pankaj Baroi; ENVIROCON

- NOTE:**
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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

(DECEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/01/Dec/2015
02	Date of Sampling	28.12.2015
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)	5.6
07	Flow Rate (Nm ³ /hr)	15,125
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	41.7



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Meghalaya

(DECEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/02/Dec/2015
02	Date of Sampling	28.12.2015
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	177
06	Exit Velocity of Gas (m/sec)	13.9
07	Flow Rate (Nm ³ /hr)	2,342,66
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	38.5

Pankaj Baroi

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Meghalaya

(DECEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/03/Dec/2015
02	Date of Sampling	29.12.2015
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	70
06	Exit Velocity of Gas (m/sec)	9.1
07	Flow Rate (Nm ³ /hr)	32,194
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	37.3



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Meghalaya

(DECEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/04/Dec/2015
02	Date of Sampling	29.12.2015
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)	14.9
07	Flow Rate (Nm ³ /hr)	1,937,78
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	39.9



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Meghalaya

(DECEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/05/Dec/2015
02	Date of Sampling	30.12.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	66
06	Exit Velocity of Gas (m/sec)	9.9
07	Flow Rate (Nm ³ /hr)	35,437
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	38.1



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(DECEMBER- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/06/Dec/2015
02	Date of Sampling	30.12.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Packing House
05	Flue Gas Temperature (°C)	35
06	Exit Velocity of Gas (m/sec)	4.2
07	Flow Rate (Nm ³ /hr)	7,354
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	36.4



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NOISE LEVEL MEASUREMENT RESULTS

M/s HILLS CEMENT COMPANY LIMITED

Vill: Mynkree, 116 KM Stone, NH- 44

Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(DECEMBER- 2015)

Measurement Date: 30.12.2015

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	75	66	71
2	Near CCR Building	65	62	64
3	Main Gate	67	64	66
4	Near Main Building	60	55	58

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	63	60	62
2	Near CCR Building	61	55	58
3	Main Gate	60	54	56
4	Near Main Building	57	52	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.
