



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

(AUGUST - 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	11.08.2015	25.67	62.47	08.41	ND
Near Crusher Area	11.08.2015	47.26	77.41	16.37	05.78
In- Front of Compressor House (Cement Mill)	12.08.2015	41.34	70.27	15.42	06.17

Analysis Protocol: **IS 5182**

ND: Not Detected

Pankaj Baroi

ENVIROCON
ASSAM
DIGBOI

Checked By: Pankaj Baroi; ENVIROCON

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STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

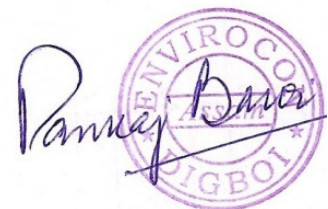
Vill: Mynkree, 116 KM Stone, NH- 44

Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(AUGUST - 2015)

01	Stack Emission Ref. No.	ENV/HCCL/01/August/2015
02	Date of Sampling	11.08.2015
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)	4.7
07	Flow Rate (Nm ³ /hr)	12.859
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	40.8



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STACK EMISSION TEST RESULTS

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Meghalaya

(AUGUST- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/02/August/2015
02	Date of Sampling	11.08.2015
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	171
06	Exit Velocity of Gas (m/sec)	13.2
07	Flow Rate (Nm ³ /hr)	2,25,475
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	33.4

Pankaj Baroi

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**STACK EMISSION TEST RESULTS**

M/s HILLS CEMENT COMPANY LIMITED

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Meghalaya

(AUGUST- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/03/August/2015
02	Date of Sampling	12.08.2015
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	65
06	Exit Velocity of Gas (m/sec)	8.7
07	Flow Rate (Nm ³ /hr)	31,234
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	38.5

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**STACK EMISSION TEST RESULTS**

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Meghalaya

(AUGUST- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/04/August/2015
02	Date of Sampling	11.08.2015
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	234
06	Exit Velocity of Gas (m/sec)	16.3
07	Flow Rate (Nm ³ /hr)	2,12,403
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	28.9

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STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

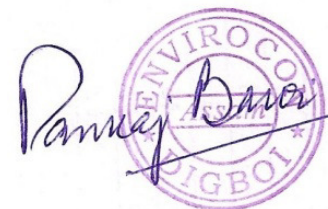
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Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(AUGUST- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/05/August/2015
02	Date of Sampling	12.08.2015
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	67
06	Exit Velocity of Gas (m/sec)	9.4
07	Flow Rate (Nm ³ /hr)	33,549
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	39.4



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(AUGUST- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/06/August/2015
02	Date of Sampling	11.08.2015
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)	4.2
07	Flow Rate (Nm ³ /hr)	7,331
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	41.3

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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

(AUGUST- 2015)

Measurement Date: **12.08.2015**

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	81	70	74
2	Near CCR Building	69	64	67
3	Main Gate	70	64	67
4	Near Main Building	67	54	63

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	74	66	68
2	Near CCR Building	63	52	54
3	Main Gate	67	49	61
4	Near Main Building	59	45	53

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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.
