



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

(MAY - 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	15.05.2015	29.36	68.27	10.45	ND
Near Crusher Area	15.05.2015	52.31	85.67	16.24	09.66
In- Front of Compressor House (Cement Mill)	16.05.2015	48.17	77.62	15.45	08.01

Analysis Protocol: **IS 5182**

ND: Not Detected

Pankaj Baroi

ENVIROCON
DIGBOI

Checked By: Pankaj Baroi; ENVIROCON

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 2. Results refer only to the particular parameters tested.
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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

(MAY - 2015)

01	Stack Emission Ref. No.	ENV/HCCL/01/May/2015
02	Date of Sampling	15.05.2015
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)	6.7
07	Flow Rate (Nm ³ /hr)	18,096
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	45.2

Pankaj Baroi

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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

(MAY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/02/May/2015
02	Date of Sampling	16.05.2015
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)	13.7
07	Flow Rate (Nm ³ /hr)	2,29,874
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	35.7

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STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

Vill: Mynkree, 116 KM Stone, NH- 44

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Meghalaya

(MAY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/03/May/2015
02	Date of Sampling	16.05.2015
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)	9.2
07	Flow Rate (Nm ³ /hr)	33,127
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	41.5




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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

(MAY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/04/May/2015
02	Date of Sampling	15.05.2015
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	232
06	Exit Velocity of Gas (m/sec)	15.9
07	Flow Rate (Nm ³ /hr)	2,08,011
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	31.2

Pankaj Baroi

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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

(MAY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/05/May/2015
02	Date of Sampling	15.05.2015
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)	9.3
07	Flow Rate (Nm ³ /hr)	33,192
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	40.2

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STACK EMISSION TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

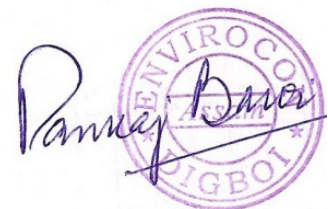
Vill: Mynkree, 116 KM Stone, NH- 44

Sub Division: Khliehriat; Dist: Jaintia Hills

Meghalaya

(MAY- 2015)

01	Stack Emission Ref. No.	ENV/HCCL/06/May/2015
02	Date of Sampling	16.05.2015
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)	5.9
07	Flow Rate (Nm ³ /hr)	10,298
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm ³)	41.4



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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

(MAY- 2015)

Measurement Date: **16.05.2015**

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	82	74	76
2	Near CCR Building	69	60	65
3	Main Gate	71	68	70
4	Near Main Building	68	60	64

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	77	70	72
2	Near CCR Building	62	50	56
3	Main Gate	68	60	62
4	Near Main Building	59	52	55

Checked By: Pankaj Baroi; ENVIROCON

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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.
