



## 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 - 2016)

<b>LOCATIONS</b> ↓	<b>Date of Sampling</b>	<b>PM 2.5 (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>PM 10 (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>NO<sub>2</sub> (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>SO<sub>2</sub> (<math>\mu\text{g}/\text{m}^3</math>)</b>
<b>LIMITS</b> →	--	<b>60</b> (24 hrs. Average)	<b>100</b> (24 hrs. Average)	<b>80</b> (24 hrs. Average)	<b>80</b> (24 hrs. Average)
In- Front of Guest House	21.12.2016	34.4	71.1	ND	ND
Near Crusher Area	21.12.2016	50.6	82.7	16.8	10.1
In- Front of Compressor House (Cement Mill)	22.12.2016	47.1	79.5	14.3	9.5

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

(DECEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/01/DEC/2016
02	Date of Sampling	21.12.2016
03	Material of Construction	M.S.
04	Stack Attached To	B.F. of Crusher
05	Flue Gas Temperature (°C)	36
06	Exit Velocity of Gas (m/sec)	4.8
07	Flow Rate (Nm <sup>3</sup> /hr)	13,090
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	36.4



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**STACK EMISSION TEST RESULTS**

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Meghalaya

(DECEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCCL/02/DEC/2016
02	Date of Sampling	21.12.2016
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	185
06	Exit Velocity of Gas (m/sec)	12.9
07	Flow Rate (Nm <sup>3</sup> /hr)	2,13,615
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	30.9

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**STACK EMISSION TEST RESULTS**

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Meghalaya

(DECEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/03/DEC/2016
02	Date of Sampling	21.12.2016
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)	7.8
07	Flow Rate (Nm <sup>3</sup> /hr)	28,086
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	35.1

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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- 2016)

01	Stack Emission Ref. No.	ENV/HCC/04/DEC/2016
02	Date of Sampling	22.12.2016
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	212
06	Exit Velocity of Gas (m/sec)	15.2
07	Flow Rate (Nm <sup>3</sup> /hr)	2,07,054
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	29.8

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## STACK EMISSION TEST RESULTS

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Meghalaya

(DECEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCCL/05/DEC/2016
02	Date of Sampling	22.12.2016
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	62
06	Exit Velocity of Gas (m/sec)	7.6
07	Flow Rate (Nm <sup>3</sup> /hr)	27,529
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	35.2



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Meghalaya

(DECEMBER- 2016)

01	Stack Emission Ref. No.	ENV/HCCL/06/DEC/2016
02	Date of Sampling	22.12.2016
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)	6.1
07	Flow Rate (Nm <sup>3</sup> /hr)	10,647
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	37.9



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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- 2016)

Measurement Date: **21.12.2016**

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	76	72	73
2	Near CCR Building	75	69	71
3	Main Gate	73	65	70
4	Near Main Building	68	60	65

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Kiln Area	68	60	64
2	Near CCR Building	56	51	55
3	Main Gate	60	54	58
4	Near Main Building	57	52	54



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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.

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