



AMBIENT AIR QUALITY TEST RESULTS

M/s HILLS CEMENT COMPANY LIMITED

Vill: Mynkree, 116 KM Stone, NH- 44
Sub Division: Khliehriat; Dist: Jaintia Hills
<u>Meghalaya</u>

(SEPTEMBER - 2016)

LOCATIONS	Date of Sampling	PM 2.5 (μg/m³)	PM 10 (μg/m³)	NO ₂ (μg/m³)	SO ₂ (μg/m³)
LIMITS		60 (24 hrs. Average)	100 (24 hrs. Average)	80 (24 hrs. Average)	80 (24 hrs. Average)
In- Front of Guest House	14.09.2016	26.51	55.23	09.62	ND
Near Crusher Area	14.09.2016	50.17	86.44	19.14	06.63
In- Front of Compressor House (Cement Mill)	15.09.2016	42.82	74.29	16.31	ND

Analysis Protocol: IS 5182

Checked By: Pankaj Baroi; ENVIROCON

NOTE:

- 1. Results reported are valid at the time of and under the prevailing conditions of measurement.
- 2. Results refer only to the particular parameters tested.
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(SEPTEMBER - 2016)

01	Stack Emission Ref. No.	ENV/HCCL/01/Sept/2016
02	Date of Sampling	14.09.2016
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/Nm³)	35.8



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(SEPTEMBER-2016)

01	Stack Emission Ref. No.	ENV/HCCL/02/Sept/2016
02	Date of Sampling	14.09.2016
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	184
06	Exit Velocity of Gas (m/sec)	12.8
07	Flow Rate (Nm³/hr)	2,12,423
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	32.4



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01	Stack Emission Ref. No.	ENV/HCCL/03/Sept/2016
02	Date of Sampling	14.09.2016
03	Material of Construction	M.S
04	Stack Attached To	Coal Mill
05	Flue Gas Temperature (°C)	61
06	Exit Velocity of Gas (m/sec)	8.9
07	Flow Rate (Nm³/hr)	32,335
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	34.7



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(SEPTEMBER-2016)

01	Stack Emission Ref. No.	ENV/HCCL/04/Sept/2016
02	Date of Sampling	15.09.2016
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	198
06	Exit Velocity of Gas (m/sec)	17.2
07	Flow Rate (Nm ³ /hr)	2,41,262
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	31.3



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(SEPTEMBER-2016)

01	Stack Emission Ref. No.	ENV/HCCL/05/Sept/2016
02	Date of Sampling	15.09.2016
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)	10.4
07	Flow Rate (Nm³/hr)	37,672
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	37.3



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(SEPTEMBER-2016)

01	Stack Emission Ref. No.	ENV/HCCL/06/Sept/2016
02	Date of Sampling	15.09.2016
03	Material of Construction	M.S
04	Stack Attached To	Cement Packing House
05	Flue Gas Temperature (°C)	37
06	Exit Velocity of Gas (m/sec)	8.2
07	Flow Rate (Nm ³ /hr)	14,266
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	37.8



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NOISE LEVEL MEASUREMENT RESULTS

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<u>Meghalaya</u>

(SEPTEMBER-2016)

Measurement Date: 14.09.2016

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)
1	Near Kiln Area	78	72	74
2	Near CCR Building	69	57	65
3	Main Gate	73	61	68
4	Near Main Building	68	55	63

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)
1	Near Kiln Area	74	66	71
2	Near CCR Building	62	51	54
3	Main Gate	66	55	58
4	Near Main Building	61	48	51

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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 L _{eq}		
		Day Time	Night Time	
A	Industrial Area	75	70	
В	Commercial Area	65	55	
С	Residential Area	55	45	
D	Silence Zone	50	40	

<u>NB</u>:

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.
