



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>

(May - 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	11.05.2016	32.3	64.3	7.8	ND
Near Crusher Area	11.05.2016	51.7	85.2	13.2	6.3
In- Front of Compressor House (Cement Mill)	12.05.2016	46.2	75.8	15.7	6.8

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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(MAY-2016)

01	Stack Emission Ref. No.	ENV/HCCL/01/May/2016
02	Date of Sampling	11.05.2016
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)	4.2
07	Flow Rate (Nm ³ /hr)	11,491
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	40.1



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(MAY-2016)

01	Stack Emission Ref. No.	ENV/HCCL/02/May/2016
02	Date of Sampling	11.05.2016
03	Material of Construction	M.S.
04	Stack Attached To	R.A.B.H
05	Flue Gas Temperature (°C)	181
06	Exit Velocity of Gas (m/sec)	14.3
07	Flow Rate (Nm³/hr)	2,38,884
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	32.4



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(MAY-2016)

01	Stack Emission Ref. No.	ENV/HCCL/03/May/2016
02	Date of Sampling	11.05.2016
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)	8.4
07	Flow Rate (Nm ³ /hr)	30,247
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	34.8



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(MAY-2016)

01	Stack Emission Ref. No.	ENV/HCCL/04/May/2016
02	Date of Sampling	12.05.2016
03	Material of Construction	M.S
04	Stack Attached To	Cooler E.S.P
05	Flue Gas Temperature (°C)	227
06	Exit Velocity of Gas (m/sec)	14.7
07	Flow Rate (Nm ³ /hr)	1,94,235
08	Type of Fuel Used	Coal
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	29.3



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(MAY-2016)

01	Stack Emission Ref. No.	ENV/HCCL/05/May/2016
02	Date of Sampling	12.05.2016
03	Material of Construction	M.S
04	Stack Attached To	Cement Mill
05	Flue Gas Temperature (°C)	64
06	Exit Velocity of Gas (m/sec)	8.2
07	Flow Rate (Nm³/hr)	29,526
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	33.6



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(MAY-2016)

01	Stack Emission Ref. No.	ENV/HCCL/06/May/2016
02	Date of Sampling	12.05.2016
03	Material of Construction	M.S
04	Stack Attached To	Cement Packing House
05	Flue Gas Temperature (°C)	33
06	Exit Velocity of Gas (m/sec)	6.2
07	Flow Rate (Nm³/hr)	10,927
08	Type of Fuel Used	NA
09	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm³)	38.4



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NOISE LEVEL MEASUREMENT RESULTS

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(MAY-2016)

Measurement Date: 11.05.2016

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)
1	Near Kiln Area	74	72	73
2	Near CCR Building	67	64	66
3	Main Gate	70	63	68
4	Near Main Building	65	59	62

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	L _{eq} (dB-A)
1	Near Kiln Area	70	67	69
2	Near CCR Building	59	54	56
3	Main Gate	56	49	52
4	Near Main Building	53	44	47



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AMBIENT NOISE LEVEL STANDARDS

SCHEDULE

[Rule 3(1) and 4(1) of Noise Pollution (Regulation & Control) Rules, 2000]

A CI-	Category of Area/Zone	Limit in dB (A) in L _{eq}		
Area Code		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.
