

Report No.: ENV/HCCL/AAQ/Nov/17-18/01

Date : 06/12/2017

M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44

Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

SL. No.	Location(s) ↓	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 ($\mu\text{g}/\text{m}^3$)
	Limit(s) →		60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	In-front of Guest House	22.11.2017	18.6	44.6	ND	ND
2.	Near Crusher Area	22.11.2017	50.4	86.3	6.2	ND
3.	In- Front of Compressor House (Cement Mill)	23.11.2017	32.6	64.8	8.4	ND

ND: Not Detected

Analysis Protocol: **IS 5182**

Sampled & Analysed by: ENVIROCON, Digboi



Checked By: Pankaj Baroi, **ENVIROCON**

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M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44

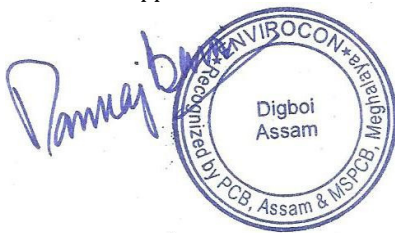
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Nov/17-18/01		
02	Date of Sampling	22.11.2017		
03	Material of Construction	M. S.		
04	Stack Attached To	B. F. of Crusher		
05	Stack Diameter (Meter)	1.0		
06	Flue Gas Temperature (°C)	34		
07	Exit Velocity of Gas (m/sec)	4.7		
08	Flow Rate (Nm ³ /hr)	12,901		
09	Type of Fuel Used	NA*		
10	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	26.4	mg/Nm ³	30

*NA: Not Applicable



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Report No. : ENV/HCCL/SE/Nov/17-18/02

Date : 06/12/2017

M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44

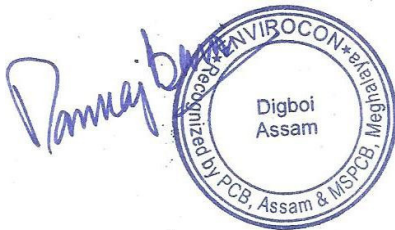
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Nov/17-18/02		
02	Date of Sampling	22.11.2017		
03	Material of Construction	M. S.		
04	Stack Attached To	R.A.B.H.		
05	Stack Diameter (Meter)	3.0		
06	Flue Gas Temperature (°C)	181		
07	Exit Velocity of Gas (m/sec)	12.4		
08	Flow Rate (Nm ³ /hr)	2,07,144		
09	Type of Fuel Used	NA*		
10	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	27.9	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/HCCL/SE/Nov/17-18/03

Date : 06/12/2017

M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44

Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Nov/17-18/03		
02	Date of Sampling	22.11.2017		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	57		
07	Exit Velocity of Gas (m/sec)	8.7		
08	Flow Rate (Nm ³ /hr)	31,991		
09	Type of Fuel Used	Coal		
10	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	27.8	mg/Nm ³	30



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Report No.: ENV/HCCL/SE/Nov/17-18/04

Date : 06/12/2017

M/s HILLS CEMENT COMPANY LIMITED


Village: Mynkree, 116 KM Stone, NH-44

Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Nov/17-18/04		
02	Date of Sampling	22.11.2017		
03	Material of Construction	M. S.		
04	Stack Attached To	Cooler E.S.P.		
05	Stack Diameter (Meter)	2.8		
06	Flue Gas Temperature (°C)	216		
07	Exit Velocity of Gas (m/sec)	13.1		
08	Flow Rate (Nm ³ /hr)	1,76,988		
09	Type of Fuel Used	Coal		
10	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	26.1	mg/Nm ³	30



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Report No.: ENV/HCCL/SE/Nov/17-18/05

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M/s HILLS CEMENT COMPANY LIMITED

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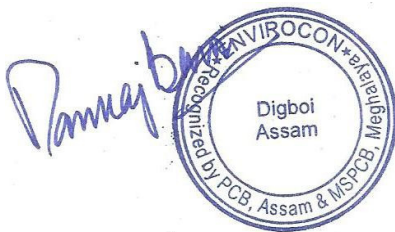
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Nov/17-18/05		
02	Date of Sampling	23.11.2017		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	61		
07	Exit Velocity of Gas (m/sec)	7.9		
08	Flow Rate (Nm ³ /hr)	28,702		
09	Type of Fuel Used	NA*		
10	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	29.2	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/HCCL/SE/Nov/17-18/06

Date : 06/12/2017

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Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Nov/17-18/06		
02	Date of Sampling	23.11.2017		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing House		
05	Stack Diameter (Meter)	0.8		
06	Flue Gas Temperature (°C)	38		
07	Exit Velocity of Gas (m/sec)	8.3		
08	Flow Rate (Nm ³ /hr)	14,393		
09	Type of Fuel Used	NA*		
10	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	29.4	mg/Nm ³	30

*NA: Not Applicable



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Report No. : ENV/HCCL/NLM/Nov/17-18/01

Date : 06/12/2017

M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44


Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 22.11.2017

Sl. No.	Locations	Day Time				Night Time			
		Max. (dB-A)	Min. (dB-A)	L _{eq} (dB-A)	Limit (dB-A)	Max. (dB-A)	Min. (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	Near Kiln Area	77	72	75	75	67	63	65	70
2	Near CCR Building	66	58	64	75	56	47	53	70
3	Main Gate	69	61	66	75	52	43	48	70
4	Near Main Building	62	54	58	75	46	38	41	70

Pankaj Baroi


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