

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

Date : 30/12/2017

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	12.12.2017	24.6	47.1	ND	ND
2.	Near Crusher Area	12.12.2017	52.1	87.8	7.2	ND
3.	In- Front of Compressor House (Cement Mill)	13.12.2017	36.9	68.2	8.7	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

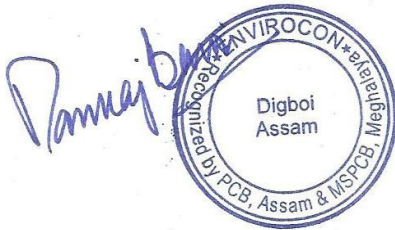
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Dec/17-18/01		
02	Date of Sampling	12.12.2017		
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)	35		
07	Exit Velocity of Gas (m/sec)	4.5		
08	Flow Rate (Nm ³ /hr)	12,312		
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	28.1	mg/Nm ³	30

*NA: Not Applicable



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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

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

Date : 30/12/2017

M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44

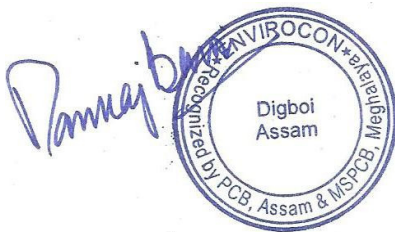
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Dec/17-18/02		
02	Date of Sampling	12.12.2017		
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)	179		
07	Exit Velocity of Gas (m/sec)	12.1		
08	Flow Rate (Nm ³ /hr)	2,03,027		
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	25.8	mg/Nm ³	30

*NA: Not Applicable



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

Date : 30/12/2017

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/Dec/17-18/03		
02	Date of Sampling	12.12.2017		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	58		
07	Exit Velocity of Gas (m/sec)	8.2		
08	Flow Rate (Nm ³ /hr)	30,062		
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	28.4	mg/Nm ³	30

Pankaj Baroi


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

Date : 30/12/2017

M/s HILLS CEMENT COMPANY LIMITED

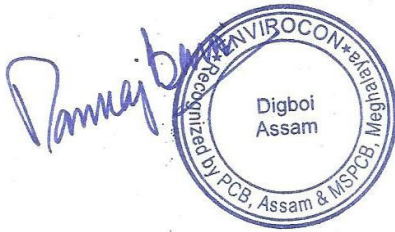
Village: Mynkree, 116 KM Stone, NH-44

Sub Division: Khliehriat, Dist.: Jaintia Hills

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STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Dec/17-18/04		
02	Date of Sampling	13.12.2017		
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)	206		
07	Exit Velocity of Gas (m/sec)	13.4		
08	Flow Rate (Nm ³ /hr)	1,84,821		
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	26.9	mg/Nm ³	30



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

Date : 30/12/2017

M/s HILLS CEMENT COMPANY LIMITED

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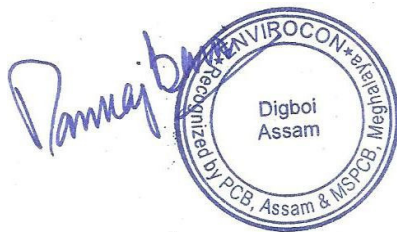
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Dec/17-18/05		
02	Date of Sampling	13.12.2017		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	63		
07	Exit Velocity of Gas (m/sec)	9.1		
08	Flow Rate (Nm ³ /hr)	32,865		
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	28.7	mg/Nm ³	30

*NA: Not Applicable



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

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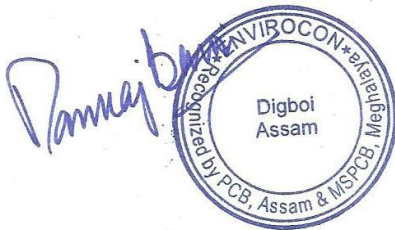
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Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Dec/17-18/06		
02	Date of Sampling	13.12.2017		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing House		
05	Stack Diameter (Meter)	0.8		
06	Flue Gas Temperature (°C)	39		
07	Exit Velocity of Gas (m/sec)	8.8		
08	Flow Rate (Nm ³ /hr)	15,212		
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	29.1	mg/Nm ³	30

*NA: Not Applicable



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

Date : 30/12/2017

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: 12.12.2017

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	76	71	73	75	68	62	64	70
2	Near CCR Building	68	59	66	75	58	50	55	70
3	Main Gate	66	57	63	75	54	46	51	70
4	Near Main Building	59	52	56	75	44	36	39	70

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