

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

Date : 05/03/2018

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	16.02.2018	25.4	43.7	ND	ND
2.	Near Crusher Area	16.02.2018	49.7	82.4	ND	ND
3.	In- Front of Compressor House (Cement Mill)	17.02.2018	31.8	59.6	5.6	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

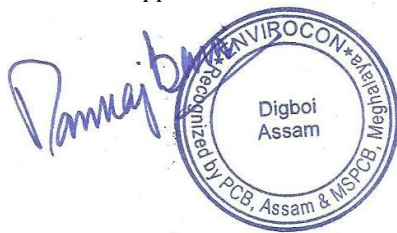
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Feb/17-18/01		
02	Date of Sampling	16.02.2018		
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)	4.4		
08	Flow Rate (Nm ³ /hr)	12,078		
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	28.4	mg/Nm ³	30

*NA: Not Applicable



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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

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

Date : 05/03/2018

M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44

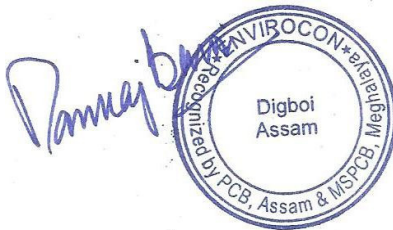
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Feb/17-18/02		
02	Date of Sampling	16.02.2018		
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	26.7	mg/Nm ³	30

*NA: Not Applicable



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

Date : 05/03/2018

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/Feb/17-18/03		
02	Date of Sampling	16.02.2018		
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)	8.3		
08	Flow Rate (Nm ³ /hr)	30,520		
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	28.5	mg/Nm ³	30



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

Date : 05/03/2018

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/Feb/17-18/04		
02	Date of Sampling	17.02.2018		
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)	198		
07	Exit Velocity of Gas (m/sec)	12.4		
08	Flow Rate (Nm ³ /hr)	1,73,933		
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	26.2	mg/Nm ³	30



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

Date : 05/03/2018

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/Feb/17-18/05		
02	Date of Sampling	17.02.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	59		
07	Exit Velocity of Gas (m/sec)	8.8		
08	Flow Rate (Nm ³ /hr)	32,164		
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	28.6	mg/Nm ³	30

*NA: Not Applicable



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

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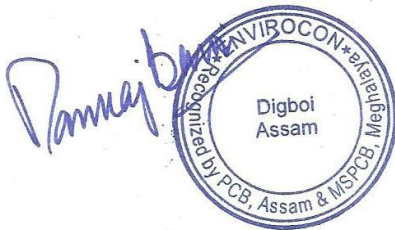
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Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/Feb/17-18/06		
02	Date of Sampling	17.02.2018		
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)	8.4		
08	Flow Rate (Nm ³ /hr)	14,567		
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/NLM/Feb/17-18/01

Date : 05/03/2018

M/s HILLS CEMENT COMPANY LIMITED

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Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

NOISE LEVEL MEASUREMENT RESULTS

Measurement Date: 16.02.2018

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	75	70	73	75	69	64	67	70
2	Near CCR Building	66	61	64	75	56	48	51	70
3	Main Gate	58	52	56	75	49	42	46	70
4	Near Main Building	63	57	59	75	47	41	43	70

Pankaj Baroi


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