

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

Date : 02/02/2018

**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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )
	Limit(s) →		60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	In-front of Guest House	17.01.2018	21.9	45.6	ND	ND
2.	Near Crusher Area	17.01.2018	53.4	89.1	6.9	ND
3.	In- Front of Compressor House (Cement Mill)	18.01.2018	34.4	62.7	7.8	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

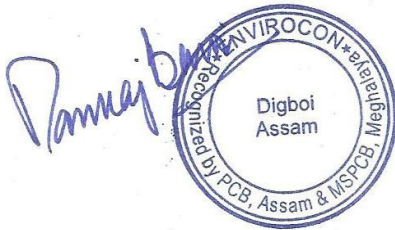
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

**STACK EMISSION TEST RESULTS**

01	Stack Emission Test Ref. No.	HCCL/SE/Jan/17-18/01		
02	Date of Sampling	17.01.2018		
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)	32		
07	Exit Velocity of Gas (m/sec)	4.3		
08	Flow Rate (Nm <sup>3</sup> /hr)	11,880		
09	Type of Fuel Used	NA*		
10	<b>Analysis Results of Flue Gas</b>			
<b>Sl. No.</b>	<b>Parameter(s)</b>	<b>Result(s)</b>	<b>Unit(s)</b>	<b>Limit(s)</b>
i.	PM- Particulate Matter	27.7	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



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

Date : 02/02/2018

**M/s HILLS CEMENT COMPANY LIMITED**

Village: Mynkree, 116 KM Stone, NH-44

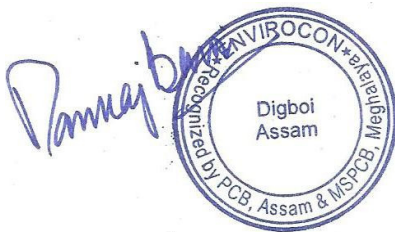
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

**STACK EMISSION TEST RESULTS**

01	Stack Emission Test Ref. No.	HCCL/SE/Jan/17-18/02		
02	Date of Sampling	17.01.2018		
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)	175		
07	Exit Velocity of Gas (m/sec)	11.6		
08	Flow Rate (Nm <sup>3</sup> /hr)	1,96,376		
09	Type of Fuel Used	NA*		
10	<b>Analysis Results of Flue Gas</b>			
<b>Sl. No.</b>	<b>Parameter(s)</b>	<b>Result(s)</b>	<b>Unit(s)</b>	<b>Limit(s)</b>
i.	PM- Particulate Matter	27.5	mg/Nm <sup>3</sup>	30

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

Date : 02/02/2018

**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/Jan/17-18/03		
02	Date of Sampling	17.01.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	54		
07	Exit Velocity of Gas (m/sec)	8.1		
08	Flow Rate (Nm <sup>3</sup> /hr)	30,058		
09	Type of Fuel Used	Coal		
10	<b>Analysis Results of Flue Gas</b>			
<b>Sl. No.</b>	<b>Parameter(s)</b>	<b>Result(s)</b>	<b>Unit(s)</b>	<b>Limit(s)</b>
i.	PM- Particulate Matter	28.7	mg/Nm <sup>3</sup>	30



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

Date : 02/02/2018

**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/Jan/17-18/04		
02	Date of Sampling	18.01.2018		
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)	192		
07	Exit Velocity of Gas (m/sec)	12.8		
08	Flow Rate (Nm <sup>3</sup> /hr)	1,81,860		
09	Type of Fuel Used	Coal		
10	<b>Analysis Results of Flue Gas</b>			
<b>Sl. No.</b>	<b>Parameter(s)</b>	<b>Result(s)</b>	<b>Unit(s)</b>	<b>Limit(s)</b>
i.	PM- Particulate Matter	27.0	mg/Nm <sup>3</sup>	30



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

Date : 02/02/2018

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Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

**STACK EMISSION TEST RESULTS**

01	Stack Emission Test Ref. No.	HCCL/SE/Jan/17-18/05		
02	Date of Sampling	18.01.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	58		
07	Exit Velocity of Gas (m/sec)	8.6		
08	Flow Rate (Nm <sup>3</sup> /hr)	31,528		
09	Type of Fuel Used	NA*		
10	<b>Analysis Results of Flue Gas</b>			
<b>Sl. No.</b>	<b>Parameter(s)</b>	<b>Result(s)</b>	<b>Unit(s)</b>	<b>Limit(s)</b>
i.	PM- Particulate Matter	28.9	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



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

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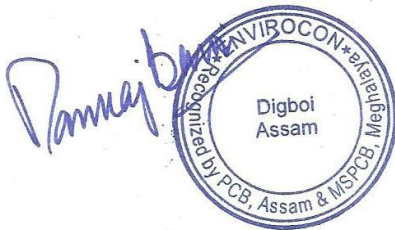
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

**STACK EMISSION TEST RESULTS**

01	Stack Emission Test Ref. No.	HCCL/SE/Jan/17-18/06		
02	Date of Sampling	18.01.2018		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing House		
05	Stack Diameter (Meter)	0.8		
06	Flue Gas Temperature (°C)	35		
07	Exit Velocity of Gas (m/sec)	8.2		
08	Flow Rate (Nm <sup>3</sup> /hr)	14,358		
09	Type of Fuel Used	NA*		
10	<b>Analysis Results of Flue Gas</b>			
<b>Sl. No.</b>	<b>Parameter(s)</b>	<b>Result(s)</b>	<b>Unit(s)</b>	<b>Limit(s)</b>
i.	PM- Particulate Matter	27.8	mg/Nm <sup>3</sup>	30

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

Date : 02/02/2018

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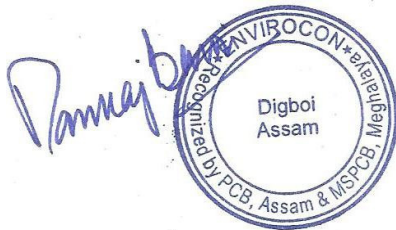
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

**NOISE LEVEL MEASUREMENT RESULTS**

Measurement Date: 17.01.2018

Sl. No.	Locations	Day Time				Night Time			
		Max. (dB-A)	Min. (dB-A)	L <sub>eq</sub> (dB-A)	Limit (dB-A)	Max. (dB-A)	Min. (dB-A)	L <sub>eq</sub> (dB-A)	Limit (dB-A)
1	Near Kiln Area	76	72	74	75	67	63	66	70
2	Near CCR Building	65	58	62	75	57	49	53	70
3	Main Gate	61	52	58	75	52	45	49	70
4	Near Main Building	62	54	58	75	46	38	41	70



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