

Report No. : ENV/HCCL/AAQ/MAY/19-20/01

W. O. No. : Nil

Date : 03/06/2019

Date : 11/03/2019

M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44

Sub Division: Khliehriat, Dist.: Jaintia Hills

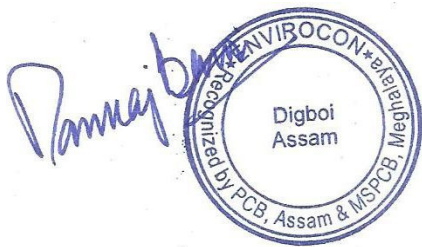
Meghalaya

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	28.05.2019	15.2	36.5	BDL	BDL
2.	Near Crusher Area	28.05.2019	27.3	58.9	BDL	BDL
3.	In- Front of Compressor House (Cement Mill)	29.05.2019	22.4	52.4	7.1	BDL
4.	Near ETP	29.05.2019	19.4	47.6	5.2	BDL

Analysis Protocol: IS 5182

BDL: Below Detectable Level



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

NOTE:

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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.

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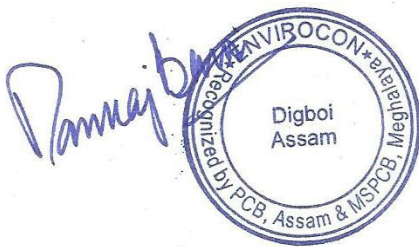
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/19-20/05-01		
02	Date of Sampling	28.05.2019		
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)	31		
07	Exit Velocity of Gas (m/sec)	4.3		
08	Flow Rate (Nm ³ /hr)	11920		
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	21.6	mg/Nm ³	30

*NA: Not Applicable



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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/19-20/05-02		
02	Date of Sampling	28.05.2019		
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)	14.3		
08	Flow Rate (Nm ³ /hr)	239941		
09	Type of Fuel Used	NA*		
10	Analysis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter (as PM)	21.7	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	779.47	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	391.04	mg/Nm ³	800

*NA: Not Applicable



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Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/19-20/05-03		
02	Date of Sampling	28.05.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	56		
07	Exit Velocity of Gas (m/sec)	8.8		
08	Flow Rate (Nm ³ /hr)	32457		
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	27.3	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	827.53	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	540.24	mg/Nm ³	800

Pankaj Baroi

 Digboi Assam
 Recognized by PCB, Assam & MSPCB, Meghalaya

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Report No. : ENV/HCLL/SE/MAY/19-20/04

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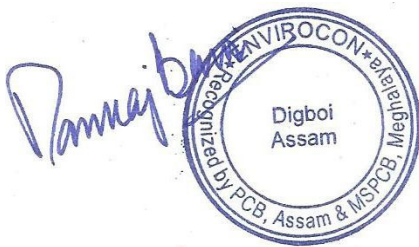
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STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/19-20/05-04		
02	Date of Sampling	29.05.2019		
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)	219		
07	Exit Velocity of Gas (m/sec)	13.1		
08	Flow Rate (Nm ³ /hr)	175909		
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	19.8	mg/Nm ³	30

*NA: Not Applicable



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STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/19-20/05-05		
02	Date of Sampling	29.05.2019		
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)	11.2		
08	Flow Rate (Nm ³ /hr)	40691		
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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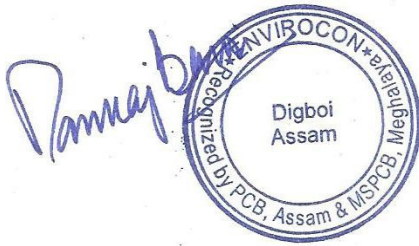
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STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/19-20/05-06		
02	Date of Sampling	29.05.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing House		
05	Stack Diameter (Meter)	0.8		
06	Flue Gas Temperature (°C)	25		
07	Exit Velocity of Gas (m/sec)	12.4		
08	Flow Rate (Nm ³ /hr)	22441		
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	25.3	mg/Nm ³	30

*NA: Not Applicable



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