

Date: 10th Aug 2019

To,
The Member Secretary,
Meghalaya State Pollution Control Board
ARDEN Lumpynggad
Shillong (Meghalaya) -793014

Subject: Reports on Ambient air quality test results, Stack Emission Test Results for the month of July 2019

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **July 2019** for the following test results:

<u>Sl No.</u>	<u>Test Results</u>	<u>Purpose</u>
1	Ambient air quality	-
2	Stack Emission	B.F of Crusher
3	Stack Emission	R.A.B.H
4	Stack Emission	Coal Mill
5	Stack Emission	Cooler E.S.P
6	Stack Emission	Cement Mill
7	Stack Emission	Packing House

Thanking you,
For Hills Cement Company Ltd

HILLS CEMENT CO. LTD.

Nikhil Parvate
Authorized Signatory
Authorized Signatory



Copy To: - The Joint Director (S), Ministry of Environment, Forest & Climate Change
NE Regional Office, Lumbatngen, Shillong 793021 for information

HILLS CEMENT COMPANY LTD.

CIN-U26942ML2003 PLC007295, Website - www.tajcement.com

CORPORATE OFFICE : "SHIVAM COMPLEX", Bharalumukh, A. T. Road, Guwahati-781009, Ph. : (0361) 2735552, 2735527, E-mail : hr@hccl.in, info@hccl.in, headoffice@tajcement.com
REGISTERED OFFICE & WORKS : Village Mynkree, 116KM Stone, NH-44, Sub Div. : Khliehriat, Dist. : Jaintia Hills, Meghalaya-793200, Ph : 03655-215864, E-mail : hillsproject@gmail.com



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Report No.: ENV/HCLL/AAQ/JUL/19-20/01

Date : 05/08/2019

W. O. No. : Nil

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	05.07.2019	15.2	33.6	BDL	BDL
2.	Near Crusher Area	05.07.2019	22.8	52.4	5.9	BDL
3.	In- Front of Compressor House (Cement Mill)	06.07.2019	18.3	45.1	7.2	BDL
4.	Near ETP	06.07.2019	20.6	47.6	6.8	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.

Report No.: ENV/HCLL/SE/JUL/19-20/01

Date : 05/08/2019

W. O. No. : Nil

Date : 11/03/2019

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/19-20/07-01		
02	Date of Sampling	05.07.2019		
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)	4.6		
08	Flow Rate (Nm ³ /hr)	12751		
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	22.4	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/HCLL/SE/JUL/19-20/02

Date : 05/08/2019

W. O. No. : Nil

Date : 11/03/2019

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/19-20/07-02		
02	Date of Sampling	05.07.2019		
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)	186		
07	Exit Velocity of Gas (m/sec)	13.9		
08	Flow Rate (Nm ³ /hr)	229673		
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)	23.8	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	709.2	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	425.6	mg/Nm ³	800

*NA: Not Applicable



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Report No.: ENV/HCLL/SE/JUL/19-20/03

Date : 05/08/2019

W. O. No. : Nil

Date : 11/03/2019

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/19-20/07-03		
02	Date of Sampling	05.07.2019		
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)	12.2		
08	Flow Rate (Nm ³ /hr)	44726		
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	28.8	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	730.8	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	445.1	mg/Nm ³	800


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Report No.: ENV/HCLL/SE/JUL/19-20/04
 Date : 05/08/2019

W. O. No. : Nil
 Date : 11/03/2019

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/19-20/07-04		
02	Date of Sampling	06.07.2019		
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)	221		
07	Exit Velocity of Gas (m/sec)	15.7		
08	Flow Rate (Nm ³ /hr)	209968		
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	25.9	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/HCLL/SE/JUL/19-20/05
Date : 05/08/2019

W. O. No. : Nil
Date : 11/03/2019

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/19-20/07-05		
02	Date of Sampling	06.07.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	62		
07	Exit Velocity of Gas (m/sec)	12.1		
08	Flow Rate (Nm ³ /hr)	43830		
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	28.9	mg/Nm ³	30

*NA: Not Applicable



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Report No.: ENV/HCLL/SE/JUL/19-20/06

Date : 05/08/2019

W. O. No. : Nil

Date : 11/03/2019

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/19-20/07-06		
02	Date of Sampling	06.07.2019		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing House		
05	Stack Diameter (Meter)	0.8		
06	Flue Gas Temperature (°C)	24		
07	Exit Velocity of Gas (m/sec)	13.2		
08	Flow Rate (Nm ³ /hr)	23970		
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	27.8	mg/Nm ³	30

*NA: Not Applicable



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