



HCCL/MSPCB/19-20/06

Date: 21<sup>th</sup> Feb 2020

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 & Waste Water Analysis (STP) for the month of Jan 2020

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **Jan 2020** 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
8	Waste Water Analysis Result	Treated STP Water

Thanking you,

For Hills Cement Company Ltd  
**HILLS CEMENT CO. LTD.**

  
Authorised 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, 116 KM Stone, N.H.-44, Sub Div.: Khliehriat, Dist.: Jaintia Hills, Meghalaya-793200, Ph.: 03655-215864, E-mail : hillsproject@gmail.com





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REGISTERED OFFICE & WORKS: Village: Mynkree, 116 KM Stone, N.H. 44, Sub Div.: Khliehriat, Dist.: Jaintia Hills, Meghalaya-793200, Ph.: 03655-215864, E-mail: hillsproject@gmail.com

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

Date : 10/01/2020

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 (µg/m <sup>3</sup> )	PM 10 (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )
	Limit(s) →		60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)
1.	In-front of Guest House	01.01.2020	26.4	35.7	BDL	BDL
2.	Near Crusher Area	01.01.2020	32.7	62.5	6.2	BDL
3.	In- Front of Compressor House (Cement Mill)	02.01.2020	27.6	60.2	6.8	BDL
4.	Near Mines	02.01.2020	30.4	71.8	9.2	BDL

Analysis Protocol: IS 5182

BDL: Below Detectable Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

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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/JAN/19-20/01

Date : 10/01/2020

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/19-20/01-01		
02	Date of Sampling	01.01.2020		
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)	38		
07	Exit Velocity of Gas (m/sec)	6.2		
08	Flow Rate (Nm <sup>3</sup> /hr)	16799		
09	Type of Fuel Used	NA*		
10	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	25.2	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



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Report No.: ENV/HCCL/SE/JAN/19-20/02

Date : 10/01/2020

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/19-20/01-02		
02	Date of Sampling	01.01.2020		
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)	190		
07	Exit Velocity of Gas (m/sec)	22.4		
08	Flow Rate (Nm <sup>3</sup> /hr)	366923		
09	Type of Fuel Used	NA*		
10	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter (as PM)	25.8	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	674.3	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	399.9	mg/Nm <sup>3</sup>	800

\*NA: Not Applicable



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

Date : 10/01/2020

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/19-20/01-03		
02	Date of Sampling	01.01.2020		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	66		
07	Exit Velocity of Gas (m/sec)	17.4		
08	Flow Rate (Nm <sup>3</sup> /hr)	62284		
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	24.6	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	748.42	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	433.39	mg/Nm <sup>3</sup>	800



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

Date : 10/01/2020

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.	HCLL/SE/19-20/01-04		
02	Date of Sampling	02.01.2020		
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)	226		
07	Exit Velocity of Gas (m/sec)	17.2		
08	Flow Rate (Nm <sup>3</sup> /hr)	227724		
09	Type of Fuel Used	NA*		
10	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	23.6	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



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Report No.: ENV/HCLL/SE/JAN/19-20/05

Date : 10/01/2020

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/19-20/01-05		
02	Date of Sampling	02.01.2020		
03	Material of Construction	M. S.		
04	Stack Attached To	Cement Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	65		
07	Exit Velocity of Gas (m/sec)	15.2		
08	Flow Rate (Nm <sup>3</sup> /hr)	54570		
09	Type of Fuel Used	NA*		
10	<b>Analysis Results of Flue Gas</b>			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	PM- Particulate Matter	23.8	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



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Report No.: ENV/HCCL/SE/JAN/19-20/06

W. O. No. : Nil

Date : 10/01/2020

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/19-20/01-06		
02	Date of Sampling	02.01.2020		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing House		
05	Stack Diameter (Meter)	0.8		
06	Flue Gas Temperature (°C)	33		
07	Exit Velocity of Gas (m/sec)	13.7		
08	Flow Rate (Nm <sup>3</sup> /hr)	24146		
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	23.5	mg/Nm <sup>3</sup>	30

\*NA: Not Applicable



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Report No.: ENV/HCL/STP/JAN/19-20/01

Date : 10/01/2020

W. O. No. : Nil

Date : 26/09/2019

**M/s HILLS CEMENT COMPANY LIMITED**

Village: Mynkree, 116 KM Stone, NH-44

Sub Division: Khliehriat, Dist: Jaintia Hills

Meghalaya**WASTE WATER ANALYSIS RESULTS**Sample Type : STP Treated Water  
Sample Source : STP OutletCollected By : Jointly by Envirocon & Client  
Collected On : 02.01.2020

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limit (CPCB Norms)
1.	pH	--	6.6	5.5 - 9.0
2.	Temperature	°C	18.2	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	12.8	100
4.	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	19	30
5.	Chemical Oxygen Demand	mg/l	62	250
6.	Oil & Grease	mg/l	<0.1	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	6.1	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	17.8	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0

Analysis Protocol: IS 3025

ND: Not Detected



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