

HCCL/MSPCB/20-21/04

Date: 23/2/21

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 2021

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **Jan 2021** for the following test results:

SI No.	Test Results	Purpose
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 Analysis

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 LIMITED

CORPORATE OFFICE: "SHIVAM COMPLEX", Bharalumukh, A.T. Road, Guwahati, Assam, PIN-781009 | Ph: (0361)2735527/52 E: hr@hccl.in, info@hccl.in
REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone(NH 44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, PIN-793200

HCCL/MSPCB/20-21/04

Date: 23/2/21

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NE Regional Office, Lumbatngen, Shillong 793021 for information



23/2/21

HILLS CEMENT COMPANY LIMITED

Report No.: ENV/HCL/AAQ/JAN/20-21/01

Date : 02/02/2021

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 ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO 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	19.01.2021	16.4	35.6	<1.0	<1.0
2.	Near Crusher Area	19.01.2021	33.2	66.4	5.2	8.3
3.	In- Front of Compressor House (Cement Mill)	20.01.2021	37.8	70.4	5.8	9.1
4.	Near Mines	20.01.2021	33.8	68.5	<1.0	<1.0

Analysis Protocol: IS 5182



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 (CIP), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/HCL/SE/JAN/20-21/01

Date : 02/02/2021

W. O. No. : Nil

Date : 11/03/2019

M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44

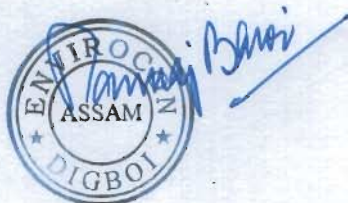
Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

01	Stack Emission Test Ref. No.	HCCL/SE/20-21/01-01		
02	Date of Sampling	19.01.2021		
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)	25		
07	Exit Velocity of Gas (m/sec)	4.3		
08	Flow Rate (Nm³/hr)	12160		
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/Nm³	30

*NA: Not Applicable



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Report No.: ENV/HCL/SE/JAN/20-21/02
Date : 02/02/2021
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/20-21/01-02		
02	Date of Sampling	19.01.2021		
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)	176		
07	Exit Velocity of Gas (m/sec)	15.2		
08	Flow Rate (Nm³/hr)	256747		
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)	16.5	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	789.5	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	438.7	mg/Nm³	800

*NA: Not Applicable



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Report No.: ENV/HCLL/SE/JAN/20-21/03

Date : 02/02/2021

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/20-21/01-03		
02	Date of Sampling	19.01.2021		
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)	13.6		
08	Flow Rate (Nm³/hr)	50009		
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	22.6	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	749.2	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	474.9	mg/Nm³	800



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Report No.: ENV/HCCL/SE/JAN/20-21/04
Date : 02/012/2021
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/20-21/01-04		
02	Date of Sampling	19.01.2021		
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)	14.5		
08	Flow Rate (Nm³/hr)	194708		
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	18.2	mg/Nm³	30

*NA: Not Applicable


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Report No.: ENV/HCLL/SE/JAN/20-21/05

Date : 02/02/2021

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/20-21/01-05		
02	Date of Sampling	20.01.2021		
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)	13.1		
08	Flow Rate (Nm³/hr)	47881		
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	23.9	mg/Nm³	30

*NA: Not Applicable



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Report No. : ENV/HCCL/SE/JAN/20-21/06
Date : 02/02/2021
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/20-21/01-06		
02	Date of Sampling	20.01.2021		
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)	13.8		
08	Flow Rate (Nm³/hr)	24975		
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	15.6	mg/Nm³	30

*NA: Not Applicable


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Report No. : ENV/HCL/STP/JAN/20-21/01**Date : 02/02/2021****W. O. No. : HCCL/HO/ENV/20-21/01****Date : 18/11/2020****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 Outlet

Collected By : Jointly by Envirocon & Client

Collected On : 20.01.2021

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limit (CPCB Norms)
1.	pH	--	6.83	5.5 – 9.0
2.	Temperature	°C	18.7	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	19	100
4.	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	21	30
5.	Chemical Oxygen Demand	mg/l	89	250
6.	Oil & Grease	mg/l	0.46	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	4.1	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	10.6	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025

ND: Not Detected

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