



q/c MSPCB ①

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HCCL/MSPCB/20-21/05

Date: 22/3/21

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

Subject: Reports on Ambient air quality test results, Stack Emission Test Results & Waste Water Analysis (STP) for the month of Feb 2021

Dear Sir,

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

Sl 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


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/20-21/05

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For Hills Cement Company Ltd
HILLS CEMENT CO. LTD.

Authorised Signatory
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REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone(NH 44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, PIN-793200

Report No.: ENV/HCCL/AAQ/FEB/20-21/01

Date : 05/03/2021

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	11.02.2021	18.1	33.7	<5.0	<6.0
2.	Near Crusher Area	11.02.2021	36.9	59.4	6.1	8.8
3.	In- Front of Compressor House (Cement Mill)	12.02.2021	32.4	53.8	5.5	8.3
4.	Near Mines	12.02.2021	24.8	47.8	<5.0	<6.0

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

Report No.: ENV/HCLL/SE/FEB/20-21/01
Date : 05/03/2021
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/20-21/02-01		
02	Date of Sampling	11.02.2021		
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)	24		
07	Exit Velocity of Gas (m/sec)	4.1		
08	Flow Rate (Nm³/hr)	11633		
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	23.8	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/HCCL/SE/FEB/20-21/02

Date : 05/03/2021

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/20-21/02-02		
02	Date of Sampling	11.02.2021		
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)	178		
07	Exit Velocity of Gas (m/sec)	15.6		
08	Flow Rate (Nm³/hr)	262335		
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)	18.3	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	853.3	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	468.4	mg/Nm³	800

*NA: Not Applicable



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Report No.: ENV/HCCL/SE/FEB/20-21/03
Date : 05/03/2021
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/20-21/02-03		
02	Date of Sampling	11.02.2021		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	61		
07	Exit Velocity of Gas (m/sec)	12.8		
08	Flow Rate (Nm³/hr)	46504		
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	25.6	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	869.7	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	496.0	mg/Nm³	800


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Report No.: ENV/HCLL/SE/FEB/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/20-21/02-04		
02	Date of Sampling	12.02.2021		
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)	224		
07	Exit Velocity of Gas (m/sec)	15.1		
08	Flow Rate (Nm³/hr)	200725		
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	17.9	mg/Nm³	30

*NA: Not Applicable



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

Date : 05/03/2021

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/20-21/02-05		
02	Date of Sampling	12.02.2021		
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)	13.4		
08	Flow Rate (Nm³/hr)	49125		
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	20.6	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/HCCL/SE/FEB/20-21/06

Date : 05/03/2021

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/20-21/02-06		
02	Date of Sampling	12.02.2021		
03	Material of Construction	M. S.		
04	Stack Attached To	Packing House		
05	Stack Diameter (Meter)	0.8		
06	Flue Gas Temperature (°C)	21		
07	Exit Velocity of Gas (m/sec)	12.9		
08	Flow Rate (Nm³/hr)	23664		
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	15.2	mg/Nm³	30

*NA: Not Applicable



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Report No.: ENV/HCL/STP/FEB/20-21/01
Date : 05/03/2021
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 : 12.02.2021

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limit (CPCB Norms)
1.	pH	--	6.79	5.5 - 9.0
2.	Temperature	°C	19.5	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	22	100
4.	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	18	30
5.	Chemical Oxygen Demand	mg/l	82	250
6.	Oil & Grease	mg/l	<4.0	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	2.6	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	8.3	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025

ND: Not Detected


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

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