

HCCL/MSPCB/19-20/07

Date: 12th Mar 2020

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 2020

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of Feb 2020 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

Thanking you,

FAILHIUS CEMEN COMBANY Ltd

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



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Authorised Signatory

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HILLS CEMENT COMPANY LTD.



Digboi Stores Building, New Market Digboi, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672 E-mail: envirocon@rediffmail.com

Website: www.envirocon.net.in



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

Date

: 04/03/2020

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.	Location(s)	Date of	PM 2.5 (μg/m³)	PM 1 0 (μg/m³)	NO ₂ (μg/m³)	SO₂ (μg/m³)	
No.	Limit(s) Samplin		60 (24 Hrs. Av.)	100 (24 Hrs. Av.)	80 (24 Hrs. Av.)	80 (24 Hrs. Av.)	
1.	In-front of Guest House	21.02.2020	28.4	42.5	BDL	BDL	
2.	Near Crusher Area	21.02.2020	33.2	60.8	6.9	BDL	
3.	In- Front of Compressor House (Cement Mill)	22.02.2020	26.3	62.2	6.5	BDL	
4.	Near Mines	22.02.2020	35.8	72.7	8.7	BDL	

Analysis Protocol: IS 5182

BDL: Below Detectable Level



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

- 1. Results reported are valid at the time of and under the prevailing conditions of measurement.
- 2. Results refer only to the particular parameters tested.
- 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi 786171, Assam.



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Digboi, Assam – 786 171
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Website: www.envirocon.net.in



Report No. : ENV/HCCL/FE/FEB/2019-20/01

: 04/03/2020

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

Date

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM (μg/m³)	Limits (µg/m³)
21.02.2020	Coal Storage Section	977	2000
22.02.2020	Lime Stone Storage Section	1288	5000



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Date : 04/03/2020

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M/s HILLS CEMENT COMPANY LIMITED

Village: Mynkree, 116 KM Stone, NH-44 Sub Division: Khliehriat, Dist.: Jaintia Hills

Meghalaya

STACK EMISSION TEST RESULTS

Si. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
10	Analysi	s Results of Flue Gas			
09	Type of Fuel Used	NA*			
08	Flow Rate (Nm³/hr)	19529			
07	Exit Velocity of Gas (m/sec)	7.3			
06	Flue Gas Temperature (°C)	42			
05	Stack Diameter (Meter)	1.0			
04	Stack Attached To	B. F. of Crusher			
03	Material of Construction	M. S.			
02	Date of Sampling	21.02.2020			
01	Stack Emission Test Ref. No.	HCCL/SE/19-20/02-01			

*NA: Not Applicable



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

Date : 04/03/2020

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.	нс	HCCL/SE/19-20/02-02				
02	Date of Sampling		21.02.2020				
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)		188				
07	Exit Velocity of Gas (m/sec)		21.5				
08	Flow Rate (Nm³/hr)		353708				
09	Type of Fuel Used		NA*				
10	Analysi	s Results of Flue Gas					
Sl. No.	Parameter(s)	Result(s)	Result(s) Unit(s) Li				
i.	Particulate Matter (as PM)	25.2	mg/Nm³	30			
ii.	Sulphur Dioxide (as SO ₂)	630.2	630.2 mg/Nm ³ 1000				
111.	Oxides of Nitrogen (as NO _x)	391.0	mg/Nm³	800			

*NA: Not Applicable



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Date : 04/03/2020

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.	нс	HCCL/SE/19-20/02-03			
02	Date of Sampling		21.02.2020			
03	Material of Construction		M. S.			
04	Stack Attached To		Coal Mill			
05	Stack Diameter (Meter)		1.2			
06	Flue Gas Temperature (°C)		62			
07	Exit Velocity of Gas (m/sec)		17.8			
08	Flow Rate (Nm³/hr)	- X	64477			
09	Type of Fuel Used		Coal			
10	Analysi	s Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Result(s) Unit(s) Lim			
i.	PM- Particulate Matter	24.2	mg/Nm³	30		
ii.	Sulphur Dioxide (as SO ₂)	775.15	775.15 mg/Nm³ 1000			
iii.	Oxides of Nitrogen (as NO _x)	453.75	mg/Nm³	800		



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ISO 9001 OHSAS 18091

TABLE TO THE STATE OF THE STATE OF

Report No.: ENV/HCCL/SE/FEB/19-20/04

Date : 04/03/2020

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

07	Exit Velocity of Gas (m/sec)	17.5		
110000				
05	Flue Gas Temperature (°C)	2.8		
04	Stack Attached To Stack Diameter (Meter)	Cooler E.S.P.		
03	Material of Construction	M. S.		
02	Date of Sampling	22.02.2020		
01	Stack Emission Test Ref. No. Date of Sampling	HCCL/SE/19-20/02-04 22.02.2020		

*NA: Not Applicable



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Report No.: ENV/HCCL/SE/FEB/19-20/05

Date : 04/03/2020

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

Sl. No.	Parameter(s)	Result(s)	Result(s) Unit(s) Lin		
10	Analysi	is Results of Flue Gas			
09	Type of Fuel Used	NA*			
08	Flow Rate (Nm³/hr)	58347			
07	Exit Velocity of Gas (m/sec)	16.3			
06	Flue Gas Temperature (°C)	66			
05	Stack Diameter (Meter)	1.2			
04	Stack Attached To	Cement Mill			
03	Material of Construction	M. S.			
02	Date of Sampling	22.02.2020			
01	Stack Emission Test Ref. No.	HCCL/SE/19-20/02-05			

*NA: Not Applicable



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

Date : 04/03/2020

W. O. No. : Nil

Date : 11/03/2019

M/s HILLS CEMENT COMPANY LIMITED

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Meghalaya

STACK EMISSION TEST RESULTS

SI. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s		
10	Analysi	s Results of Flue Gas				
09	Type of Fuel Used	NA*				
08	Flow Rate (Nm³/hr)	23464				
07	Exit Velocity of Gas (m/sec)	13.4				
06	Flue Gas Temperature (°C)	35				
05	Stack Diameter (Meter)	0.8				
04	Stack Attached To	Packing House				
03	Material of Construction	M. S.				
02	Date of Sampling	22.02.2020				
01	Stack Emission Test Ref. No.	HCCL/SE/19-20/02-06				

*NA: Not Applicable



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Date : 04/03/2020 W. O. No. : Nil

:26/09/2019 Date

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 : 22.02.2020

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Desirable Limit (CPCB Norms)
1.	рН	100	6.5	5.5 - 9.0
2.	Temperature	°C	19.6	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	13.8	100
4.	Biochemical Oxygen Demand (3 Days @27°C)	mg/l	21	30
5.	Chemical Oxygen Demand	mg/l	78	250
6.	Oil & Grease	mg/l	0.16	10
7.	Total Residual Chlorine	mg/l	<0.01	1.0
8.	Ammonical Nitrogen (as N)	mg/l	5.4	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	15.8	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

Analysis Protocol: IS 3025 ND: Not Detected



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