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HCCL/MSPCB/21-22/01

Date: 21/04/2021

To,
The Member Secretary,
Mcghalaya 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 & ETP) & Fugitive Emission Test for the month of March 2021

Dear Sir,

Flease find enclosed herewith to this letter the reports for the month of March 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 Mi!1
7	Stack Emission	Packing House
8	Waste Water Analysis Result	Treated STP & ETP 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







HCCL/MSPCB/21-22/01

Date: 21/04/2621.

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Meghalaya State Pollution Control Board
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HILLS CEMENT CO. LTD.

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NE Regional Office, Lumbatngen, Shillong 793021 for information

HILLS CEMENT COMPANY LIMITED

CORPORATE OFFICE: "SHIVAM COMPLEX", Bharalumukh, A.T. Road, Guwahati, Assam, PIN-781009 J.Ph. 10361)2735527/52 E: hr@hccl.in, info@hccl.in REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone(NH 44), Sub One, Khilearia Dist: Jaintia Hills, Meghalaya, PIN-793200



Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/HCCL/21-22/AA-03/01

Date : 06/04/2021

Order No.: Nil

Date : 11/03/2019

Report Issued To: HILLS CEMENT COMPANY LIMITED

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

E-mail: envirocon@rediffmail.com

# **AMBIENT AIR QUALITY TEST RESULTS**

Sl. No.	LOCATION(S)↓	Date of Sampling	PM 2.5 (μg/m³)	PM 10 (μg/m³)	SO <sub>2</sub> (μg/m³)	NO <sub>2</sub> (μg/m³)
2000	LIMIT(S) →	-	60	100	80	80
01	In-front of Guest House	24.03.2021	21.7	47.6	<5.0	6.3
02	Near Crusher Area	24.03.2021	24.5	51.2	5.3	6.9
03	In- Front of Compressor House (Cement Mill)	25.03.2021	22.8	48.3	6.2	8.4
04	Near Mines	25.03.2021	26.3	52.8	<5.0	<6.0

Analysis Protocol: IS 5182

Pannej bani

Date: ASSP

Checked By: Mr. Pankaj Baroi, ENVIROCON

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ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/HCCL/21-22/SE-03/01

Date : 06/04/2021

Order No.: Nil

Date : 11/03/2019

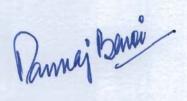
Report Issued To: HILLS CEMENT COMPANY LIMITED

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

# STACK EMISSION TEST RESULTS

01	Test Ref. No.	Н	CCL/20-21/SE-03/	01		
02	Date of Sampling	24.03.2021				
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)		28			
07	Exit Velocity of Gas (m/sec)	4.7				
08	Flow Rate (Nm³/hr)		13158			
09	Type of Fuel Used		NA*			
	Analy	s Results of Flue Gas				
SI. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter	21	mg/Nm³	30		

\*NA: Not Applicable





Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/HCCL/21-22/SE-03/02

Date : 06/04/2021

Order No.: Nil

Date : 11/03/2019

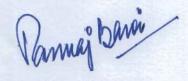
Report Issued To: HILLS CEMENT COMPANY LIMITED

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

#### STACK EMISSION TEST RESULTS

01	Test Ref. No.	H	ICCL/20-21/SE-03/	02	
02	Date of Sampling		24.03.2021		
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)		180		
07	Exit Velocity of Gas (m/sec)	16.2			
08	Flow Rate (Nm³/hr)	271222			
09	Type of Fuel Used		NA*		
	Analy	sis Results of Flue Gas			
SI. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	18	mg/Nm³	30	
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	732	mg/Nm³	1000	
111.	Oxides of Nitrogen (as NO <sub>x</sub> )	414	mg/Nm³	800	

\*NA: Not Applicable





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Report No.: ENV/HCCL/21-22/SE-03/03

Date : 06/04/2021

Order No.: Nil

Date :11/03/2019

Report Issued To: HILLS CEMENT COMPANY LIMITED

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

# STACK EMISSION TEST RESULTS

01	Test Ref. No.	H	ICCL/20-21/SE-03/	03	
02	Date of Sampling		24.03.2021		
03	Material of Construction		M. S.		
04	Stack Attached To		Coal Mill	A SOLIT	
05	Stack Diameter (Meter)		1.2		
06	Flue Gas Temperature (°C)	66			
07	Exit Velocity of Gas (m/sec)	13.3			
08	Flow Rate (Nm³/hr)	47608			
09	Type of Fuel Used	Coal			
	Analy	sis Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	23	mg/Nm³	30	
il.	Sulphur Dioxide (as SO <sub>2</sub> )	758	mg/Nm³	1000	
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	393	mg/Nm³	800	

Pannaj Danon



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/HCCL/21-22/SE-03/04

Date : 06/04/2021

Order No.: Nil

Date : 11/03/2019

Report Issued To: HILLS CEMENT COMPANY LIMITED

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

## STACK EMISSION TEST RESULTS

01	Test Ref. No.	Н	CCL/20-21/SE-03/0	04	
02	Date of Sampling	25.03.2021			
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)	221			
07	Exit Velocity of Gas (m/sec)	14.8			
08	Flow Rate (Nm³/hr)		197932		
09	Type of Fuel Used		NA*		
	Analy	s Results of Flue Gas			
SI. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
1.	Particulate Matter	18	mg/Nm³	30	

<sup>\*</sup>NA: Not Applicable





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Report No.: ENV/HCCL/21-22/SE-03/05

Date : 06/04/2021

Order No.: Nil

Date : 11/03/2019

Report Issued To:

HILLS CEMENT COMPANY LIMITED

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

## **STACK EMISSION TEST RESULTS**

01	Test Ref. No.	Н	ICCL/20-21/SE-03/	05	
02	Date of Sampling		25.03.2021		
03	Material of Construction		M. S.		
04	Stack Attached To		Cement Mill		
05	Stack Diameter (Meter)		1.2		
06	Flue Gas Temperature (°C)		60		
07	Exit Velocity of Gas (m/sec)		12.9		
08	Flow Rate (Nm³/hr)		47008		
09	Type of Fuel Used		NA*		
	Analy	sis Results of Flue Gas	Results of Flue Gas		
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	19	mg/Nm³	30	

\*NA: Not Applicable

Panney Bank



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Report No.: ENV/HCCL/21-22/SE-03/06

Date : 06/04/2021

Order No.: Nil

Date : 11/03/2019

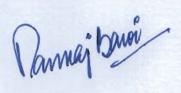
Report Issued To: HILLS CEMENT COMPANY LIMITED

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

# **STACK EMISSION TEST RESULTS**

01	Test Ref. No.	Н	CCL/20-21/SE-03/	06	
02	Date of Sampling		25.03.2021		
03	Material of Construction		M. S.		
04	Stack Attached To		Packing House		
05	Stack Diameter (Meter)	0,8			
06	Flue Gas Temperature (°C)	23			
07	Exit Velocity of Gas (m/sec)	13.5			
08	Flow Rate (Nm³/hr)		24597		
09	Type of Fuel Used	NA*			
	Analy	s Results of Flue Gas			
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)	
i.	Particulate Matter	16	mg/Nm³	30	

\*NA: Not Applicable





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Report No.: ENV/HCCL/21-22/WW-03/01

Date : 06/04/2021

Order No.: HCCL/HO/ENV/20-21/01

Date : 18/11/2020

Report Issued To: HILLS CEMENT COMPANY LIMITED

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

#### **WASTE WATER ANALYSIS RESULTS**

Sample Ref. No.

: HCCL/20-21/WW-2503/01

Sample Type/Source

: Waste Water (Treated)/STP Outlet

Sample Collected By

: Representative of ENVIROCON

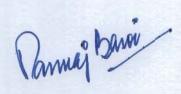
Sample Collected On Sample Received On

: 25.03.2021 : 27.03.2021

Analysis Protocol

: IS 3025

SI. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	-	6.62	5.5 - 9.0
2.	Temperature	oC.	26.5	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	25	100
4.	Biochemical Oxygen Demand	mg/l	19	30
5.	Chemical Oxygen Demand	mg/l	79	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	2.4	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	7.7	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0





Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/HCCL/21-22/WW-03/02

Date : 06/04/2021

Order No.: Nil

Date : 11/03/2019

Report Issued To: HI

HILLS CEMENT COMPANY LIMITED

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

## **WASTE WATER ANALYSIS RESULTS**

Sample Ref. No.

: HCCL/20-21/WW-2503/02

Sample Type/Source

: Waste Water (Treated)/ETP Outlet

Sample Collected By

: Representative of ENVIROCON

Sample Collected On

: 25.03.2021 : 27.03.2021

Sample Received On Analysis Protocol

: IS 3025

SI. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	-	6.81	5.5 - 9.0
2.	Temperature	oC.	24.2	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	26	100
4.	Biochemical Oxygen Demand	mg/l	20	30
5.	Chemical Oxygen Demand	mg/l	86	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 <sub>3</sub> )	mg/l	9.1	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0

Panney banin



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/HCCL/21-22/FE-03/01

Date : 06/04/2021

Order No.: HCCL/HO/ENV/20-21/01

Date : 18/11/2020

Report Issued To: HILLS CEMENT COMPANY LIMITED

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

## **PROCESS FUGITIVE EMISSION TEST RESULTS**

Sl. No.	Locations	Date of Sampling	Results for SPM (µg/m³)	Limits (µg/m³)
01	Coal Storage Section	24.03.2021	833	2000
02	Lime Stone Storage Section	24.03.2021	1510	5000
03	Fly-ash Storage Section	25.03.2021	2239	5000
04	Cement Packing Section	25.03.2021	3005	5000

Analysis Protocol: IS 5182

Raming Dani



Checked By: Mr. Pankaj Baroi, ENVIROCON

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