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HCCL/MSPCB/21-22/07

Date: 25/1/22

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

Subject: Reports on Ambient Air Quality test, Stack Emission test, Fugitive Emission, Waste Water Analysis (STP & ETP) & Noise Level Measurement Test for the month of December 2021

Dear Sir.

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

Sl No.	Test Results	Purpose
1	Ambient Air Quality	-
2	Stack Emission	R.A.B.H
3	Stack Emission	Coal Mill
4	Stack Emission	Cooler E.S.P
5	Waste Water Analysis Result	ETP & STP Water Analysis
6	Noise Level Measurement Test	
7	Fugitive Emission Test	

Thanking you,

For Hills Cement Company Ltd

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





Website: www.tajcement.com CIN: U26942ML2003PLC007295

HCCL/MSPCB/21-22/07

Date: 24/22.

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Meghalaya State Pollution Control Board

ARDEN Lumpyngngad

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Subject: Reports on Ambient Air Quality test, Stack Emission test, Fugitive Emission, Waste Water Analysis (STP & ETP) & Noise Level Measurement Test for the month of December 2021 Dear Sir,

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<u>S1 No.</u>	Test Results	Purpose		
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4	Stack Emission	Cooler E.S.P		
5 Waste Water Analysis Result		ETP & STP Water Analysis		
6	Noise Level Measurement Test			
7 Fugitive Emission Test				

Thanking you,

For Hills Cement Company Ltd HILLS CEMENT COMPANY LTD.

Authorized Signatory
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**HILLS CEMENT COMPANY LIMITED** 



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

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Report No.: ENV/HCCL/21-22/AA-12/01

:08/01/2022 Date

Order No.: HCCL/HO/ENV/21-22/01

:08/04/2021 Date

HILLS CEMENT COMPANY LIMITED Report Issued To:

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

# AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S)↓	CATION(S) ↓ Date of Sampling		<b>PM 10</b> (μg/m³)	<b>SO</b> <sub>2</sub> (μg/m <sup>3</sup> )	NO <sub>2</sub> (μg/m <sup>3</sup> )
	LIMIT(S) →	40.00	60	100	80	80
01	In-front of Guest House	13.12.2021	20.1	43.4	<5.0	<6.0
02	Near Crusher Area	13.12.2021	28.6	50.5	6.8	7.6
03	In- Front of Compressor House (Cement Mill)	14.12.2021	26.7	49.3	7.1	7.9
04	Near Mines	14.12.2021	33.9	59.7	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/HCCL/21-22/SE-12/03

:08/01/2022 Date

Order No.: HCCL/HO/ENV/21-22/01

Date :08/04/2021

HILLS CEMENT COMPANY LIMITED Report Issued To:

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	н	HCCL/21-22/SE-12/03			
02	Date of Sampling		12.12.2021			
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)		8.9			
08	Flow Rate (Nm³/hr)		119027			
09	Type of Fuel Used		NA*			
	Analy	sis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)		
i.	Particulate Matter	18	18 mg/Nm³			
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	BDL#	BDL# mg/Nm <sup>3</sup> 10			
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	BDL#	mg/Nm³	800		

\*NA: Not Applicable

**#BDL: Below Detectable Limit** 



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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	НС	HCCL/21-22/SE-12/01			
02	Date of Sampling		11.12.2021			
03	Material of Construction		M. S.			
04	Stack Attached To		Coal Mill			
05	Stack Diameter (Meter)		1.2			
06	Flue Gas Temperature (°C)		59			
07	Exit Velocity of Gas (m/sec)		13.6			
08	Flow Rate (Nm³/hr)		49708			
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		
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	314	314 mg/Nm <sup>3</sup> 10			
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	149	mg/Nm³	800		



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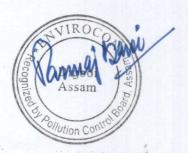
:08/04/2021 Date

HILLS CEMENT COMPANY LIMITED Report Issued To:

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	НС	HCCL/21-22/SE-12/02			
02	Date of Sampling		11.12.2021			
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)		181			
07	Exit Velocity of Gas (m/sec)		19.3			
08	Flow Rate (Nm <sup>3</sup> /hr)		322410			
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	21	mg/Nm³	30		
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	536	mg/Nm³	1000		
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	284	mg/Nm³	800		



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

## NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			L <sub>eq</sub> (dB-A)	Limit (dB-A)	L <sub>eq</sub> (dB-A)	Limit (dB-A)
1	In-front of Guest House	11.12.2021	46.9	75	34.3	70
2	Near Crusher Area	11.12.2021	69.8	75	61.6	70
3	In- Front of Compressor House (Cement Mill)	12.12.2021	71.3	75	67.7	70
4	Near Mines	12.12.2021	42.8	75	33.4	70



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:08/04/2021 Date

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## PROCESS FUGITIVE EMISSION TEST RESULTS

Date Locations		Fugitive Emission Results for SPM (µg/m³)	Limits (μg/m³)
1.12.2021	Coal Storage Section	813	2000
11.12.2021	Lime Stone Storage Section	2172	5000
12.12.2021	Fly-ash Storage Section	2879	5000
12.12.2021	Cement Packing Section	2962	5000



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:08/01/2022 Date

Order No.: HCCL/HO/ENV/21-22/01

:08/04/2021 Date

HILLS CEMENT COMPANY LIMITED Report Issued To:

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

# WASTE WATER ANALYSIS RESULTS

Sample Ref. No.

: HCCL/21-22/WW-1212/01

Sample Type/Source

: Waste Water (Treated)/STP Outlet

Sample Collected By

: Representative of ENVIROCON

Sample Collected On Sample Received On

: 12.12.2021

Analysis Protocol

: 16.12.2021

ysis Proto	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	-	6.79	5.5 - 9.0
2.	Temperature	°C	25.8	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	17	100
4.	Biochemical Oxygen Demand	mg/l	20	30
5,	Chemical Oxygen Demand	mg/l	112	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	8.3	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	18	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0



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:08/01/2022 Date

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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/21-22/WW-1212/02

Sample Type/Source

: Waste Water (Treated)/ETP Outlet

Sample Collected By

: Representative of ENVIROCON

Sample Collected On

: 12.12.2021

Sample Received On

: 16.12.2021

Analysis Protocol

: IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	рН	I della -	6.73	5.5 - 9.0
2.	Temperature	оС	25.2	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	24	100
4.	Biochemical Oxygen Demand	mg/l	21	30
5.	Chemical Oxygen Demand	mg/l	126	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	9.1	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	19	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0



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