

HCCL/MSPCB/21-22/08

Date: 18/02/22

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

**Subject:** Reports on Ambient Air Quality test, Stack Emission test, Waste Water Analysis (STP) & Noise Level Measurement Test for the month of January 2022


Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **January 2022** for the following test results:-

<u>Sl No.</u>	<u>Test Results</u>	<u>Purpose</u>
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 (Treated)	STP Water Analysis
6	Noise Level Measurement Test	-

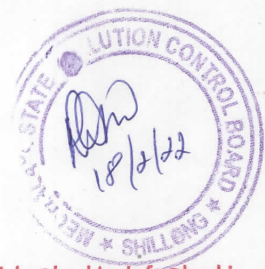
Thanking you,

For Hills Cement Company Ltd  
**HILLS CEMENT COMPANY LTD.**

  
Authorized 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**



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**HILLS CEMENT COMPANY LIMITED**



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

Date : 08/02/2022

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

Date : 08/04/2021

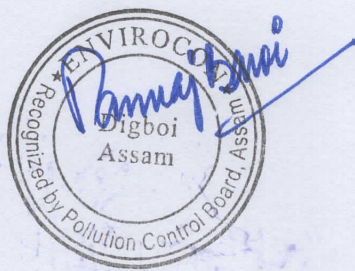
Report Issued To : **HILLS CEMENT COMPANY LIMITED**

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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )
	LIMIT(S) →	---	60	100	80	80
01	In-front of Guest House	24.01.2022	23.2	44.8	<5.0	<6.0
02	Near Crusher Area	25.01.2022	27.9	51.6	5.3	7.3
03	In-Front of Compressor House (Cement Mill)	24.01.2022	24.6	48.3	6.7	7.2
04	Near Mines	25.01.2022	30.3	52.6	<5.0	<6.0

Analysis Protocol: IS 5182

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

- NOTE:**
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  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, I.O.C.L (AOD) New Market, Digboi - 786171, Assam.

**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/21-22/N-01/01

Date : 08/02/2022

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

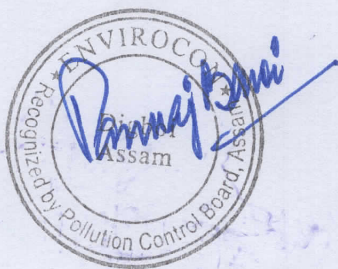
Date : 08/04/2021

Report Issued To : **HILLS CEMENT COMPANY LIMITED**

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	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	In-front of Guest House	24.01.2022	49.6	75	41.9	70
2	Near Crusher Area	24.01.2022	72.8	75	63.5	70
3	In- Front of Compressor House (Cement Mill)	25.01.2022	73.1	75	65.7	70
4	Near Mines	25.01.2022	44.9	75	36.8	70

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

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Report No.: ENV/HCLL/21-22/SE-01/01

Date : 08/02/2022

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

Date : 08/04/2021

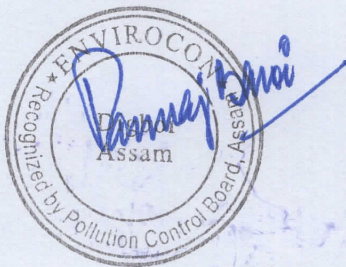
Report Issued To : **HILLS CEMENT COMPANY LIMITED**

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

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/21-22/SE-01/01		
02	Date of Sampling	24.01.2022		
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)	174		
07	Exit Velocity of Gas (m/sec)	18.3		
08	Flow Rate (Nm³/hr)	310492		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	22	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	626	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	384	mg/Nm³	800

\*NA: Not Applicable



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

Date : 08/02/2022

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

Date : 08/04/2021

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.	HCCL/21-22/SE-01/03		
02	Date of Sampling	25.01.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	11.7		
08	Flow Rate (Nm³/hr)	43551		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	499	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	306	mg/Nm³	800



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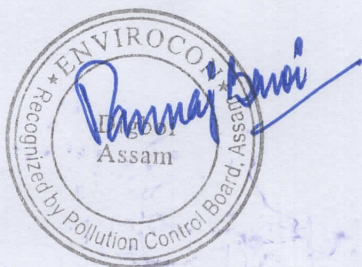
Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/21-22/SE-01/02		
02	Date of Sampling	25.01.2022		
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)	217		
07	Exit Velocity of Gas (m/sec)	7.9		
08	Flow Rate (Nm³/hr)	106515		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL#	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	BDL#	mg/Nm³	800

\*NA: Not Applicable

#BDL: Below Detectable Limit



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Report No.: ENV/HCL/21-22/WW-01/01

Date : 08/02/2022

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

Date : 08/04/2021

 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/21-22/WW-2501/01  
 Sample Type/Source : Waste Water (Treated)/STP Outlet  
 Sample Collected By : Representative of ENVIROCON  
 Sample Collected On : 25.01.2022  
 Sample Received On : 29.01.2022  
 Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.73	5.5 – 9.0
2.	Temperature	°C	23.2	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	14	100
4.	Biochemical Oxygen Demand	mg/l	21	30
5.	Chemical Oxygen Demand	mg/l	95	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	9.4	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0



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