



o/c MSPCB

Website: www.tajcement.com
CIN: U26942ML2003PLC007295

HCCL/MSPCB/21-22/09

Date: 16/03/22

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 February 2022

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of February 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,

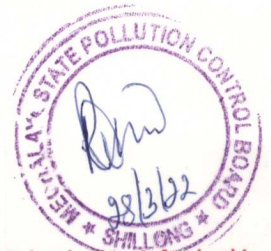
For Hills Cement Company Ltd
HILLS CEMENT COMPANY LTD.


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

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/21-22/09

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**HILLS CEMENT COMPANY LIMITED**

Report No.: ENV/HCCL/21-22/AA-02/01

Date : 09/03/2022

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

Date : 08/04/2021

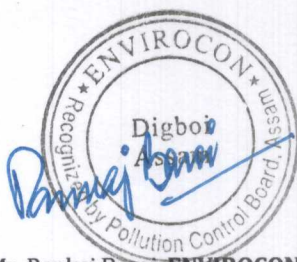
Report Issued To : **HILLS CEMENT COMPANY LIMITED**

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 ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →					
01	In-front of Guest House	27.02.2022	26.7	45.9	<5.0	<6.0
02	Near Crusher Area	27.02.2022	29.4	52.2	5.4	7.6
03	In- Front of Compressor House (Cement Mill)	28.02.2022	28.5	50.9	6.3	7.3
04	Near Mines	28.02.2022	29.7	48.3	<5.0	<6.0

Analysis Protocol: IS 5182



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

- NOTE:**
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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/HCCL/21-22/N-02/01

Date : 09/03/2022

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

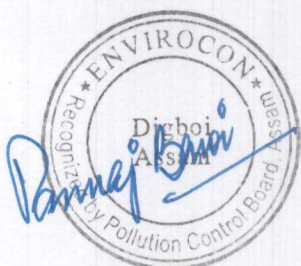
Date : 08/04/2021

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

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

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	27.02.2022	48.3	75	42.6	70
2	Near Crusher Area	28.02.2022	71.6	75	64.8	70
3	In- Front of Compressor House (Cement Mill)	28.02.2022	72.8	75	66.3	70
4	Near Mines	27.02.2022	45.3	75	34.2	70



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

Date : 09/03/2022

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/21-22/SE-02/03		
02	Date of Sampling	28.02.2022		
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)	181		
07	Exit Velocity of Gas (m/sec)	19.3		
08	Flow Rate (Nm³/hr)	322410		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	628	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	391	mg/Nm³	800

*NA: Not Applicable


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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-02/01		
02	Date of Sampling	27.02.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	55		
07	Exit Velocity of Gas (m/sec)	12.6		
08	Flow Rate (Nm³/hr)	46615		
09	Type of Fuel Used	Coal		
Analysis 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 SO₂)	522	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	310	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-02/02		
02	Date of Sampling	27.02.2022		
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)	221		
07	Exit Velocity of Gas (m/sec)	6.9		
08	Flow Rate (Nm³/hr)	92279		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	27	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL [#]	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



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Date : 09/03/2022

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Date : 08/04/2021

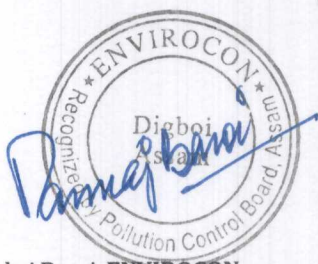
Report Issued To : **HILLS CEMENT COMPANY LIMITED**

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-2802/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 28.02.2022
Sample Received On : 03.03.2022
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.75	5.5 – 9.0
2.	Temperature	°C	21.6	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	26	100
4.	Biochemical Oxygen Demand	mg/l	19	30
5.	Chemical Oxygen Demand	mg/l	92	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	2.2	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	9.1	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

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