

HCCL/MSPCB/23-24/013

Date: 11/10/2023

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 **September, 2023**

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **September, 2023** 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	STP Water Analysis
6	Noise Level Measurement Test	

Thanking you,  
For Hills Cement Company Ltd

HILLS CEMENT COMPANY LTD.

Tyash Baid

Authorised Signatory

Copy To: - (1) The Joint Director (S), Ministry of Environment, Forest & Climate Change

NE Regional Office, Lumbatngen, Shillong 793021 for information  
(2) The Regional Director Regional Directorate (NE), Central Pollution Control Board, TUM-SIR, Lower Motinagar, Near Fire Brigade HQ, Shillong-793014

**HILLS CEMENT COMPANY LIMITED**

CORPORATE OFFICE: "SHIVAM COMPLEX", Bharalumukh, A.T. Road, Guwahati, Assam, PIN-781009 | Ph.: (0361) 2735527/52 | E: [hr@hccl.in](mailto:hr@hccl.in) | [info@hccl.in](mailto:info@hccl.in)  
REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone (NH44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, Pin-793200



HCCL/MSPCB/23-24/014

Date: 16/10/2023

To,  
The Member Secretary,  
Meghalaya State Pollution Control Board  
ARDEN Lumpynggad  
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 September, 2023

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HCCL/MSPCB/23-24/015

Date: 11/10/2023

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Meghalaya State Pollution Control Board  
ARDEN Lumpyngngad  
Shillong (Meghalaya) -793014

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Thanking you,  
For **Hills Cement Company Ltd**

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*Tejash Baird*

Authorised Signatory

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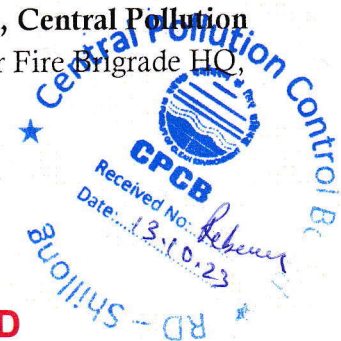
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Email to: [20shillong.cpcb@nic.in](mailto:20shillong.cpcb@nic.in)

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REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone (NH44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, Pin-793200



Report No.: ENV/HCL/23-24/AA-09/01

Date : 05/10/2023

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

**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	16.09.2023	25.9	50.8	<5.0	<6.0
02	Near Crusher Area	16.09.2023	30.2	52.6	7.7	8.4
03	In- Front of Compressor House (Cement Mill)	17.09.2023	33.7	53.9	7.2	7.6
04	Near Mines	17.09.2023	31.6	49.7	<5.0	<6.0

Analysis Protocol: IS 5182

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

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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/HCL/23-24/N-09/01

Date : 05/10/2023

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

**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	16.09.2023	53.4	75	46.9	70
2	Near Crusher Area	16.09.2023	69.6	75	64.7	70
3	In- Front of Compressor House (Cement Mill)	17.09.2023	70.5	75	65.3	70
4	Near Mines	17.09.2023	52.4	75	49.3	70

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

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Report No.: ENV/HCL/23-24/SE-09/01

Date : 05/10/2023

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	HCCL/2023/SE-09/01		
02	Date of Sampling	16.09.2023		
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)	179		
07	Exit Velocity of Gas (m/sec)	21.4		
08	Flow Rate (Nm³/hr)	359073		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	26	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	702	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	378	mg/Nm³	800

\*NA: Not Applicable

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

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Report No.: ENV/HCL/23-24/SE-09/02

Date : 05/10/2023

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

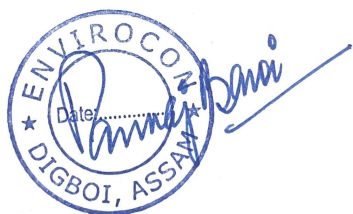
Date : 08/04/2021

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

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

**STACK EMISSION TEST RESULTS**

01	Test Ref. No.	HCCL/2023/SE-09/02		
02	Date of Sampling	16.09.2023		
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)	12.1		
08	Flow Rate (Nm³/hr)	44765		
09	Type of Fuel Used	Coal		
Analysis 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 SO₂)	632	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	294	mg/Nm³	800

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

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Report No.: ENV/HCL/23-24/SE-09/03

Date : 05/10/2023

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

Date : 08/04/2021

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

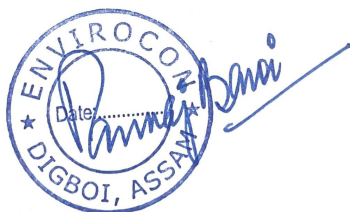
Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

### STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/2023/SE-09/03		
02	Date of Sampling	17.09.2023		
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)	231		
07	Exit Velocity of Gas (m/sec)	12.6		
08	Flow Rate (Nm³/hr)	165166		
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)	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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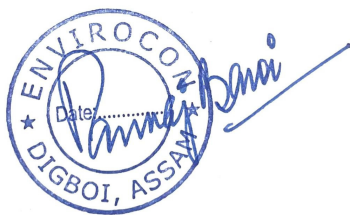
Date : 08/04/2021

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. : HCL/2023/WW-2509/01  
Sample Type/Source : Waste Water (Treated)/STP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 25.09.2023  
Sample Received On : 27.09.2023  
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.82	5.5 – 9.0
2.	Temperature	°C	26.1	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	36	100
4.	Biochemical Oxygen Demand	mg/l	25	30
5.	Chemical Oxygen Demand	mg/l	99	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	4.7	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	12.2	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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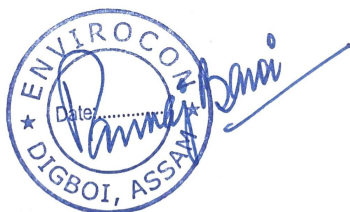
Date : 08/04/2021

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

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

**PROCESS FUGITIVE EMISSION TEST RESULTS**

Date	Locations	Fugitive Emission Results for SPM ( $\mu\text{g}/\text{m}^3$ )	Limits ( $\mu\text{g}/\text{m}^3$ )
16.09.2023	Coal Storage Section	466	2000
16.09.2023	Lime Stone Storage Section	1537	5000
17.09.2023	Fly-ash Storage Section	1951	5000
17.09.2023	Cement Packing Section	2133	5000

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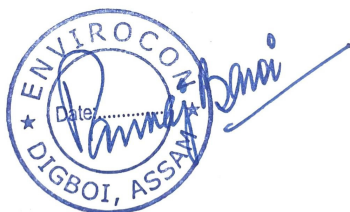
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Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

**WASTE WATER ANALYSIS RESULTS**

Sample Ref. No. : HCL/2023/WW-2509/01  
Sample Type/Source : Waste Water (Treated)/ETP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 25.09.2023  
Sample Received On : 27.09.2023  
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per G.S.R. 801(E), 31.12.1993)
1.	pH	--	6.84	5.5 – 9.0
2.	Temperature	°C	26.1	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	26	100
4.	Biochemical Oxygen Demand	mg/l	21	30
5.	Chemical Oxygen Demand	mg/l	82	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	3.4	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	8.9	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0

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