



0/C

Website: [www.tajcement.com](http://www.tajcement.com)  
CIN: U26942ML2003PLC007295

HCCL/MSPCB/24-25/001

Date: 22.04.2024

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

**Subject:** Monthly monitoring reports of Ambient Air Quality, Stack Emission, Waste Water Analysis (STP) & Noise Level Measurement for the month of **March, 2024**.

**Dear Sir,**

Please find enclosed herewith to this letter the reports for the month of **March, 2024** 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**

  
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) 4083974 | 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

Report No.: ENV/HCLL/23-24/AA-03/01  
Date : 09/04/2024

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

**AMBIENT AIR QUALITY TEST RESULTS**

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m <sup>3</sup> )	PM 10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
	LIMIT(S) →	---	60	100	80	80
01	In-front of Guest House	17.03.2024	26.3	51.3	<5.0	<6.0
02	Near Crusher Area	17.03.2024	31.4	53.8	7.9	8.6
03	In- Front of Compressor House (Cement Mill)	18.03.2024	34.8	54.7	7.4	7.9
04	Near Mines	18.03.2024	32.9	50.2	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
  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.

Report No.: ENV/HCLL/23-24/N-03/01  
Date : 09/04/2024

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	
			L <sub>eq</sub> (dB-A)	Limit (dB-A)	L <sub>eq</sub> (dB-A)	Limit (dB-A)
1	In-front of Guest House	17.03.2024	55.1	75	48.3	70
2	Near Crusher Area	17.03.2024	70.3	75	65.4	70
3	In- Front of Compressor House (Cement Mill)	18.03.2024	71.6	75	66.8	70
4	Near Mines	18.03.2024	53.4	75	48.3	70

  
Date: .....

Checked By: Mr. Pankaj Baroi, ENVIROCON

**NOTE:** 1. Results reported are valid at the time of and under the prevailing conditions of measurement.  
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.

Report No.: ENV/HCLL/23-24/SE-03/01  
Date : 09/04/2024

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/2024/SE-03/01		
02	Date of Sampling	17.03.2024		
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)	176		
07	Exit Velocity of Gas (m/sec)	20.2		
08	Flow Rate (Nm <sup>3</sup> /hr)	341203		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	728	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	266	mg/Nm <sup>3</sup>	800

\*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
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/23-24/SE-03/02  
Date : 09/04/2024

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/2024/SE-03/02		
02	Date of Sampling	17.03.2024		
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)	11.8		
08	Flow Rate (Nm <sup>3</sup> /hr)	43923		
09	Type of Fuel Used	Coal		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	582	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	205	mg/Nm <sup>3</sup>	800



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

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
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/HCCL/23-24/SE-03/03  
Date : 09/04/2024

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/2024/SE-03/03		
02	Date of Sampling	18.03.2024		
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)	233		
07	Exit Velocity of Gas (m/sec)	11.3		
08	Flow Rate (Nm <sup>3</sup> /hr)	147540		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	BDL#	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	BDL#	mg/Nm <sup>3</sup>	800

\*NA: Not Applicable

#BDL: Below Detectable Limit



Checked By: Mr. Pankaj Baroi, ENVIROCON

**NOTE:**

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
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/23-24/WW-03/01  
Date : 09/04/2024

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

### WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/2024/WW-1803/01  
Sample Type/Source : Waste Water (Treated)/STP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 18.03.2024  
Sample Received On : 22.03.2024  
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.76	5.5 – 9.0
2.	Temperature	°C	25.1	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	34	100
4.	Biochemical Oxygen Demand	mg/l	23	30
5.	Chemical Oxygen Demand	mg/l	97	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	4.5	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	12.1	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0

  
Date: .....

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

**NOTE:** 1. Results reported are valid at the time of and under the prevailing conditions of measurement.  
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.



Report No.: ENV/HCLL/23-24/FE-03/01  
Date : 09/04/2024

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

**PROCESS FUGITIVE EMISSION TEST RESULTS**

Date	Locations	Fugitive Emission Results for SPM ( $\mu\text{g}/\text{m}^3$ )	Limits ( $\mu\text{g}/\text{m}^3$ )
17.03.2024	Coal Storage Section	471	2000
17.03.2024	Lime Stone Storage Section	1543	5000
18.03.2024	Fly-ash Storage Section	1962	5000
18.03.2024	Cement Packing Section	2139	5000

  
Date: .....  
Pankaj Baroi

Checked By: Mr. Pankaj Baroi, ENVIROCON

**NOTE:** 1. Results reported are valid at the time of and under the prevailing conditions of measurement.  
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.



Report No.: ENV/HCCL/23-24/WW-03/02

Date : 09/04/2024

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

### WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/2024/WW-1803/01  
Sample Type/Source : Waste Water (Treated)/ETP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 18.03.2024  
Sample Received On : 22.03.2024  
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	--	6.81	5.5 – 9.0
2.	Temperature	°C	25.1	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	28	100
4.	Biochemical Oxygen Demand	mg/l	23	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	3.7	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	8.7	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

**NOTE:** 1. Results reported are valid at the time of and under the prevailing conditions of measurement.  
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.