



O/C MSPCB

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

HCCL/MSPCB/23-24/004

Date: 10/08/2023

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 **June 2023**

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **June 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 Bar

Authorized 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



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Central Pollution Control Board

केन्द्रीय निदेशालय उत्तर पूर्व शिल्लोंग - ७९३०१४

Regional Directorate - North East, Shillong - 793014

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार  
Ministry of Environment, Forest & Climate Change, Govt. of India

RECEIPT NO

10/08/2023

HILLS CEMENT COMPANY LIMITED



HCCL/MSPCB/23-24/005

Date: 10/08/2023

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Meghalaya State Pollution Control Board  
ARDEN Lumpynggad  
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Report No.: ENV/HCL/23-24/AA-06/01

Date : 05/07/2023

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	15.06.2023	24.8	47.3	<5.0	<6.0
02	Near Crusher Area	15.06.2023	29.3	50.2	7.5	8.2
03	In- Front of Compressor House (Cement Mill)	16.06.2023	31.6	51.8	6.9	7.3
04	Near Mines	16.06.2023	29.7	48.6	<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-06/01

Date : 05/07/2023

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	15.06.2023	51.8	75	44.2	70
2	Near Crusher Area	15.06.2023	67.3	75	66.8	70
3	In- Front of Compressor House (Cement Mill)	16.06.2023	71.2	75	68.4	70
4	Near Mines	16.06.2023	51.8	75	47.5	70

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

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Report No.: ENV/HCL/23-24/SE-06/01

Date : 05/07/2023

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-06/01		
02	Date of Sampling	15.06.2023		
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)	172		
07	Exit Velocity of Gas (m/sec)	18.1		
08	Flow Rate (Nm³/hr)	308479		
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)	802	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	434	mg/Nm³	800

\*NA: Not Applicable

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

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Report No.: ENV/HCL/23-24/SE-06/02

Date : 05/07/2023

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-06/02		
02	Date of Sampling	15.06.2023		
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)	10.5		
08	Flow Rate (Nm³/hr)	38846		
09	Type of Fuel Used	Coal		
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)	882	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	560	mg/Nm³	800

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

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Report No.: ENV/HCL/23-24/SE-06/03

Date : 05/07/2023

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-06/03		
02	Date of Sampling	16.06.2023		
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)	226		
07	Exit Velocity of Gas (m/sec)	9.8		
08	Flow Rate (Nm³/hr)	129750		
09	Type of Fuel Used	NA*		
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)	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/23-24/WW-06/01

Date : 05/07/2023

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

**WASTE WATER ANALYSIS RESULTS**

Sample Ref. No. : HCL/2023/WW-1606/01  
Sample Type/Source : Waste Water (Treated)/STP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 16.06.2023  
Sample Received On : 18.06.2023  
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.86	5.5 – 9.0
2.	Temperature	°C	26.2	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	33	100
4.	Biochemical Oxygen Demand	mg/l	23	30
5.	Chemical Oxygen Demand	mg/l	96	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	4.4	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	12.9	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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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 ( $\mu\text{g}/\text{m}^3$ )
15.06.2023	Coal Storage Section	438	2000
15.06.2023	Lime Stone Storage Section	1526	5000
16.06.2023	Fly-ash Storage Section	1942	5000
16.06.2023	Cement Packing Section	2126	5000

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

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Report No.: ENV/HCL/23-24/WW-06/02

Date : 05/07/2023

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

**WASTE WATER ANALYSIS RESULTS**

Sample Ref. No. : HCL/2023/WW-1606/01  
Sample Type/Source : Waste Water (Treated)/ETP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 16.06.2023  
Sample Received On : 18.06.2023  
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	--	6.85	5.5 – 9.0
2.	Temperature	°C	26.2	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	24	100
4.	Biochemical Oxygen Demand	mg/l	19	30
5.	Chemical Oxygen Demand	mg/l	76	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	2.8	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	8.6	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0

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