

o/c MSPCB

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CIN: U26942ML2003PLC007295

HCCL/MSPCB/23-24/018

Date: 04/12/23

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 November, 2023

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **November, 2023** 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	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) 2735527/52 | E: hr@hccl.in | info@hccl.in
REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone (NH44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, Pin-793200

HCCL/MSPCB/23-24/018

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HCCL/MSPCB/23-24/018

Date: 25/01/24

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 **November, 2023**

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For Hills Cement Company Ltd


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25/1/24

HILLS CEMENT COMPANY LIMITED

Report No.: ENV/HCCL/23-24/AA-11/01
Date : 11/12/2023

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

AMBIENT AIR QUALITY TEST RESULTS

Sl. No.	LOCATION(S) ↓	Date of Sampling	PM 2.5 (µg/m ³)	PM 10 (µg/m ³)	SO ₂ (µg/m ³)	NO ₂ (µg/m ³)
	LIMIT(S) →	---	60	100	80	80
01	In-front of Guest House	29.11.2023	25.8	47.1	<5.0	<6.0
02	Near Crusher Area	29.11.2023	37.2	52.5	7.1	7.9
03	In- Front of Compressor House (Cement Mill)	30.11.2023	40.6	56.9	7.4	8.3
04	Near Mines	30.11.2023	36.3	53.1	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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Report No.: ENV/HCLL/23-24/N-11/01
Date : 11/12/2023

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

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	In-front of Guest House	29.11.2023	53.6	75	46.2	70
2	Near Crusher Area	29.11.2023	68.3	75	63.7	70
3	In- Front of Compressor House (Cement Mill)	30.11.2023	70.4	75	67.5	70
4	Near Mines	30.11.2023	56.3	75	51.8	70


Date:

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Report No.: ENV/HCCL/23-24/SE-11/01
Date : 11/12/2023

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-11/01		
02	Date of Sampling	29.11.2023		
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)	17.2		
08	Flow Rate (Nm ³ /hr)	288601		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	23	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	694	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	346	mg/Nm ³	800

*NA: Not Applicable



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

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Report No.: ENV/HCCL/23-24/SE-11/02
Date : 11/12/2023

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-11/02		
02	Date of Sampling	29.11.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	51		
07	Exit Velocity of Gas (m/sec)	11.3		
08	Flow Rate (Nm ³ /hr)	42321		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	25	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	571	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	263	mg/Nm ³	800



Signature: Pankaj Baroi
Date:
Stamp: ENVIROCON DIGBOI, ASSAM

Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/HCCL/23-24/SE-11/03
Date : 11/12/2023

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-11/03		
02	Date of Sampling	30.11.2023		
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)	227		
07	Exit Velocity of Gas (m/sec)	9.2		
08	Flow Rate (Nm ³ /hr)	121562		
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/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	BDL#	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL#	mg/Nm ³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



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Report No.: ENV/HCLL/23-24/WW-11/01
Date : 11/12/2023

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/2023/WW-3011/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 30.11.2023
Sample Received On : 02.12.2023
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.83	5.5 – 9.0
2.	Temperature	°C	25.6	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	31	100
4.	Biochemical Oxygen Demand	mg/l	23	30
5.	Chemical Oxygen Demand	mg/l	89	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	4.6	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12.2	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



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