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CIN: U26942ML2003PLC007295

Date: 23.01.2024

HCCL/MSPCB/23-24/019

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 December, 2023.

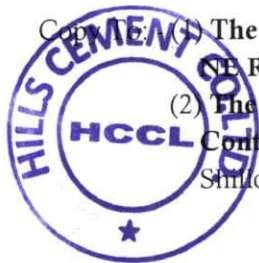
Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **December, 2023** for the following test results:

SI 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**

Deepak Sandhu
Authorised Signatory



Copy to (1) The Joint Director (S), Ministry of Environment, Forest & Climate Change
NE Regional Office, Lumbatnagen, 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 | info@hccl.in
REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone (NH44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, Pin-793200



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Deepan Parde
Authorised Signatory



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HILLS CEMENT COMPANY LIMITED

Report No.: ENV/HCCL/23-24/AA-12/01
Date : 10/01/2024

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

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	25.12.2023	26.3	52.7	<5.0	<6.0
02	Near Crusher Area	25.12.2023	32.7	53.1	7.5	8.2
03	In- Front of Compressor House (Cement Mill)	26.12.2023	34.6	54.6	7.4	7.8
04	Near Mines	26.12.2023	30.9	50.2	<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/HCLL/23-24/N-12/01
Date : 10/01/2024

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 _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	In-front of Guest House	25.12.2023	55.7	75	48.9	70
2	Near Crusher Area	25.12.2023	70.1	75	65.7	70
3	In- Front of Compressor House (Cement Mill)	26.12.2023	71.3	75	66.5	70
4	Near Mines	26.12.2023	53.4	75	47.1	70


Date:

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Report No.: ENV/HCCL/23-24/SE-12/01
Date : 10/01/2024

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/2023/SE-12/01		
02	Date of Sampling	25.12.2023		
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)	175		
07	Exit Velocity of Gas (m/sec)	20.3		
08	Flow Rate (Nm ³ /hr)	343657		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	24	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	716	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	303	mg/Nm ³	800

*NA: Not Applicable



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Report No.: ENV/HCL/23-24/SE-12/02
Date : 10/01/2024

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/2023/SE-12/02		
02	Date of Sampling	25.12.2023		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	52		
07	Exit Velocity of Gas (m/sec)	11.6		
08	Flow Rate (Nm ³ /hr)	43311		
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/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	567	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	210	mg/Nm ³	800



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Report No.: ENV/HCCL/23-24/SE-09/03
Date : 10/01/2024

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/2023/SE-09/03		
02	Date of Sampling	26.12.2023		
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 (Nm ³ /hr)	135825		
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)	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-12/01
Date : 10/01/2024

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/2023/WW-2612/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 26.12.2023
Sample Received On : 29.12.2023
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.84	5.5 – 9.0
2.	Temperature	°C	26.3	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	35	100
4.	Biochemical Oxygen Demand	mg/l	23	30
5.	Chemical Oxygen Demand	mg/l	103	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	4.9	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	12.6	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



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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 ($\mu\text{g}/\text{m}^3$)
25.12.2023	Coal Storage Section	478	2000
25.12.2023	Lime Stone Storage Section	1587	5000
26.12.2023	Fly-ash Storage Section	1969	5000
26.12.2023	Cement Packing Section	2183	5000



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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-2612/01
Sample Type/Source : Waste Water (Treated)/ETP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 26.12.2023
Sample Received On : 29.12.2023
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	--	6.86	5.5 – 9.0
2.	Temperature	°C	26.5	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	28	100
4.	Biochemical Oxygen Demand	mg/l	22	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	3.6	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	8.7	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



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