



O/C MSPCB

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HCCL/MSPCB/21-22/10

Date: 12/04/22

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

Subject: Reports on Ambient Air Quality test, Stack Emission test, Fugitive Emission, Waste Water Analysis (STP & ETP) & Noise Level Measurement Test for the month of March 2022

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **March 2022** 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	ETP & STP Water Analysis
6	Noise Level Measurement Test	
7	Fugitive Emission Test	



Thanking you,
For Hills Cement Company Ltd
HILLS CEMENT CO. LTD.

Authorised Signatory

Copy To: - **The Joint Director (S), Ministry of Environment, Forest & Climate Change**
NE Regional Office, Lumbatngen, Shillong 793021 for information

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(NH 44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, PIN-793200

HCCL/MSPCB/21-22/10

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HILLS CEMENT COMPANY LIMITED

Report No.: ENV/HCLL/21-22/AA-03/01
Date : 08/04/2022Order No.: HCLL/HO/ENV/21-22/01
Date : 08/04/2021Report 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	15.03.2022	21.7	44.7	<5.0	<6.0
02	Near Crusher Area	16.03.2022	30.4	52.3	6.3	7.8
03	In- Front of Compressor House (Cement Mill)	16.03.2022	27.8	51.7	7.5	7.4
04	Near Mines	15.03.2022	32.6	57.6	<5.0	<6.0

Analysis Protocol: IS 5182

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

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Report No.: ENV/HCL/21-22/N-03/01
Date : 08/04/2022

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 _{aeq} (dB-A)	Limit (dB-A)	L _{aeq} (dB-A)	Limit (dB-A)
1	In-front of Guest House	15.03.2022	50.3	75	35.6	70
2	Near Crusher Area	15.03.2022	71.6	75	67.6	70
3	In- Front of Compressor House (Cement Mill)	16.03.2022	72.7	75	66.2	70
4	Near Mines	16.03.2022	43.4	75	35.7	70




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Report No.: ENV/HCCL/21-22/SE-03/01
Date : 08/04/2022

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/21-22/SE-03/01		
02	Date of Sampling	15.03.2022		
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)	18.4		
08	Flow Rate (Nm ³ /hr)	308736		
09	Type of Fuel Used	Coal		
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)	634	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	386	mg/Nm ³	800



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Date : 08/04/2022

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/21-22/SE-03/02		
02	Date of Sampling	16.03.2022		
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)	12.2		
08	Flow Rate (Nm ³ /hr)	45552		
09	Type of Fuel Used	Coal		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	mg/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	532	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	303	mg/Nm ³	800




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Date : 08/04/2022

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/21-22/SE-03/03		
02	Date of Sampling	16.03.2022		
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)	217		
07	Exit Velocity of Gas (m/sec)	6.3		
08	Flow Rate (Nm ³ /hr)	84943		
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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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.

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Order No.: HCCL/HO/ENV/21-22/01
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PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
15.03.2022	Coal Storage Section	821	2000
16.03.2022	Lime Stone Storage Section	2154	5000
16.03.2022	Fly-ash Storage Section	2836	5000
15.03.2022	Cement Packing Section	2941	5000



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Report No.: ENV/HCL/21-22/WW-03/01
Date : 08/04/2022Order No.: HCCL/HO/ENV/21-22/01
Date : 08/04/2021Report Issued To : **HILLS CEMENT COMPANY LIMITED**

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

WASTE WATER ANALYSIS RESULTSSample Ref. No. : HCCL/21-22/WW-1603/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 16.03.2022
Sample Received On : 21.03.2022
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per GPCB Standards)
1.	pH	--	6.83	5.5 - 9.0
2.	Temperature	°C	24.3	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	19	100
4.	Biochemical Oxygen Demand	mg/l	21	30
5.	Chemical Oxygen Demand	mg/l	119	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	8.1	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	21	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



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WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/21-22/WW-1603/02
Sample Type/Source : Waste Water (Treated)/ETP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 16.03.2022
Sample Received On : 21.03.2022
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.81	5.5 – 9.0
2.	Temperature	°C	24.3	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	22	100
4.	Biochemical Oxygen Demand	mg/l	23	30
5.	Chemical Oxygen Demand	mg/l	119	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	9.4	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	21	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

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