

HCCL/MSPCB/21-22/02

Date: 30/07/21

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

Subject: Reports on Ambient air quality test results, Stack Emission Test Results, Waste Water Analysis (STP) & Noise Level Measurement Test for the month of April 2021

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of April 2021 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	Treated STP Water Analysis
6	Noise Level Measurement Test	

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

Authorised Signatory
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



Website: www.tajcement.com
CIN: U26942ML2003PLC007295

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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

Report No.: ENV/HCL/21-22/AA-04/01

Date : 07/05/2021

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 ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)
	LIMIT(S) →	---	60	100	80	80
01	In-front of Guest House	11.04.2021	22.6	45.2	<5.0	6.1
02	Near Crusher Area	12.04.2021	25.2	50.3	5.8	6.6
03	In- Front of Compressor House (Cement Mill)	11.04.2021	20.3	49.8	6.9	8.1
04	Near Mines	12.04.2021	27.4	51.3	<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.

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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

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	11.04.2021	46.8	75	38.4	70
2	Near Crusher Area	12.04.2021	68.2	75	62.7	70
3	In- Front of Compressor House (Cement Mill)	11.04.2021	70.5	75	67.9	70
4	Near Mines	12.04.2021	43.7	75	32.4	70

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Report No.: ENV/HCL/21-22/SE-04/01

Date : 07/05/2021

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/21-22/SE-04/02		
02	Date of Sampling	11.04.2021		
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)	184		
07	Exit Velocity of Gas (m/sec)	15.9		
08	Flow Rate (Nm³/hr)	263869		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	18	mg/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	539	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	299	mg/Nm³	800

*NA: Not Applicable


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

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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-04/03		
02	Date of Sampling	11.04.2021		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	62		
07	Exit Velocity of Gas (m/sec)	14.2		
08	Flow Rate (Nm³/hr)	51436		
09	Type of Fuel Used	Coal		
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)	229	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	100	mg/Nm³	800


Checked By: Mr. Pankaj Baroi, ENVIROCON

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STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/21-22/SE-04/04		
02	Date of Sampling	12.04.2021		
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)	15.6		
08	Flow Rate (Nm³/hr)	210334		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	19	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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Date : 07/05/2021

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/21-22/WW-1204/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 12.04.2021
Sample Received On : 14.04.2021
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.59	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	29	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	2.9	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	8.2	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



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