



o/c MSPCB

Website: www.tajcement.com
CIN: U26942ML2003PLC007295

HCCL/MSPCB/22-23/02

Date: 12/06/2022

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) & Noise Level Measurement Test for the month of May 2022

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of May 2022 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 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

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





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Report No.: ENV/HCCL/22-23/AA-05/01

Date : 08/06/2022

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

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	19.05.2022	28.3	44.7	<5.0	<6.0
02	Near Crusher Area	19.05.2022	31.6	51.6	5.8	7.4
03	In- Front of Compressor House (Cement Mill)	20.05.2022	28.4	49.6	6.9	7.2
04	Near Mines	20.05.2022	29.7	50.3	<5.0	<6.0

Analysis Protocol: IS 5182

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

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/HCLL/22-23/N-05/01

Date : 08/06/2022

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

NOISE LEVEL MEASUREMENT RESULTS

Sl. No.	Location(s)	Date Of Measurement	Day Time		Night Time	
			Leq (dB-A)	Limit (dB-A)	Leq (dB-A)	Limit (dB-A)
1	In-front of Guest House	19.05.2022	51.8	75	44.2	70
2	Near Crusher Area	19.05.2022	70.3	75	61.6	70
3	In- Front of Compressor House (Cement Mill)	20.05.2022	72.7	75	62.9	70
4	Near Mines	20.05.2022	48.5	75	37.7	70

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

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Report No.: ENV/HCL/22-23/SE-05/01

Date : 08/06/2022

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/22-23/SE-05/01		
02	Date of Sampling	19.05.2022		
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)	178		
07	Exit Velocity of Gas (m/sec)	15.3		
08	Flow Rate (Nm³/hr)	257290		
09	Type of Fuel Used	NA*		
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)	623	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	375	mg/Nm³	800

*NA: Not Applicable



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Date : 08/06/2022

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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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/22-23/SE-05/02
02	Date of Sampling	19.05.2022
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)	11.7
08	Flow Rate (Nm ³ /hr)	43685
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)	490	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	276	mg/Nm ³	800



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Report No.: ENV/HCCL/22-23/SE-05/03
Date : 08/06/2022

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/22-23/SE-05/03		
02	Date of Sampling	20.05.2022		
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)	218		
07	Exit Velocity of Gas (m/sec)	5.4		
08	Flow Rate (Nm³/hr)	72660		
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/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/HCCL/22-23/WW-05/01

Date : 08/06/2022

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

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/22-23/WW-3005/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 30.05.2022
Sample Received On : 31.05.2022
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.82	5.5 – 9.0
2.	Temperature	°C	23.1	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	27	100
4.	Biochemical Oxygen Demand	mg/l	19	30
5.	Chemical Oxygen Demand	mg/l	85	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	2.2	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	9.1	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

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