



HCCL/MSPCB/22-23/08

Date: 21/12/22

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

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

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **November 2022** for the following test results:

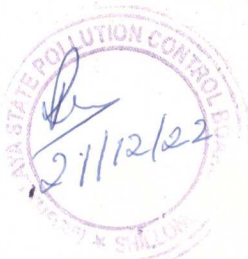
<u>Sl No.</u>	<u>Test Results</u>	<u>Purpose</u>
1	Ambient Air Quality	-
2	Stack Emission	R.A.B.H
3	Stack Emission	Coal Mill
4	Stack Emission	Cooler E.S.P
5	Waste Water Analysis Result	STP Water Analysis
6	Noise Level Measurement Test	

Thanking you,  
For Hills Cement Company Ltd

**HILLS CEMENT CO. 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**

o/c MOEFCC



Website: www.tajcement.com  
CIN: U26942ML2003PLC007295

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**HILLS CEMENT COMPANY LIMITED**



Report No.: ENV/HCL/22-23/AA-11/01  
Date : 08/12/2022

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 (µg/m <sup>3</sup> )	PM 10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
	LIMIT(S) →	---	60	100	80	80
01	In-front of Guest House	29.11.2022	28.7	44.9	<5.0	<6.0
02	Near Crusher Area	29.11.2022	33.4	53.6	7.1	7.9
03	In- Front of Compressor House (Cement Mill)	30.11.2022	30.6	51.2	7.3	7.7
04	Near Mines	30.11.2022	31.2	50.7	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/HCLL/22-23/N-11/01  
Date : 08/12/2022

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 <sub>eq</sub> (dB-A)	Limit (dB-A)	L <sub>eq</sub> (dB-A)	Limit (dB-A)
1	In-front of Guest House	29.11.2022	51.7	75	44.6	70
2	Near Crusher Area	29.11.2022	69.2	75	67.8	70
3	In- Front of Compressor House (Cement Mill)	30.11.2022	70.4	75	65.2	70
4	Near Mines	30.11.2022	53.6	75	44.7	70



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Report No.: ENV/HCLL/22-23/SE-11/01  
Date : 08/12/2022

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-11/01		
02	Date of Sampling	29.11.2022		
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)	15.6		
08	Flow Rate (Nm <sup>3</sup> /hr)	261754		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	26	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	677	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	361	mg/Nm <sup>3</sup>	800

\*NA: Not Applicable



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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/22-23/SE-11/02  
Date : 08/12/2022

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-11/02		
02	Date of Sampling	29.11.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	55		
07	Exit Velocity of Gas (m/sec)	12.9		
08	Flow Rate (Nm <sup>3</sup> /hr)	47725		
09	Type of Fuel Used	Coal		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	21	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	403	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	321	mg/Nm <sup>3</sup>	800



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

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Date : 08/12/2022

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-11/03		
02	Date of Sampling	30.11.2022		
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)	221		
07	Exit Velocity of Gas (m/sec)	7.9		
08	Flow Rate (Nm <sup>3</sup> /hr)	105653		
09	Type of Fuel Used	NA*		
<b>Analysis Results of Flue Gas</b>				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	26	mg/Nm <sup>3</sup>	30
ii.	Sulphur Dioxide (as SO <sub>2</sub> )	BDL#	mg/Nm <sup>3</sup>	1000
iii.	Oxides of Nitrogen (as NO <sub>x</sub> )	BDL#	mg/Nm <sup>3</sup>	800

\*NA: Not Applicable

#BDL: Below Detectable Limit



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Date : 08/12/2022

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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

### WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/22-23/WW-3011/01  
Sample Type/Source : Waste Water (Treated)/STP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 30.11.2022  
Sample Received On : 02.11.2022  
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.91	5.5 – 9.0
2.	Temperature	°C	25.4	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	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	2.9	50
9.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> )	mg/l	9.6	100
10.	Free Ammonia (as NH <sub>3</sub> )	mg/l	<0.01	5.0



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