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Website: www.tajcement.com
CIN: U26942ML2003PLC007295

HCCL/MSPCB/22-23/03

Date: 16/07/22

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 June 2022

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **June 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	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



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REGISTERED OFFICE & WORKS: Village Mynkree, 116KM Stone(NH 44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, PIN-793200

Report No.: ENV/HCL/22-23/AA-06/01

Date : 08/07/2022

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

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	15.06.2022	25.2	39.1	<5.0	<6.0
02	Near Crusher Area	15.06.2022	30.4	48.3	4.8	6.5
03	In- Front of Compressor House (Cement Mill)	16.06.2022	26.7	45.4	6.4	7.1
04	Near Mines	16.06.2022	28.4	49.7	<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-06/01

Date : 08/07/2022

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	
			L _{eq} (dB-A)	Limit (dB-A)	L _{eq} (dB-A)	Limit (dB-A)
1	In-front of Guest House	15.06.2022	50.4	75	41.6	70
2	Near Crusher Area	15.06.2022	72.5	75	62.3	70
3	In- Front of Compressor House (Cement Mill)	16.06.2022	73.7	75	61.8	70
4	Near Mines	16.06.2022	46.3	75	36.9	70

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Report No.: ENV/HCLL/22-23/SE-06/01

Date : 08/07/2022

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/22-23/SE-06/01		
02	Date of Sampling	15.06.2022		
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)	176		
07	Exit Velocity of Gas (m/sec)	14.8		
08	Flow Rate (Nm³/hr)	249990		
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)	508	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	376	mg/Nm³	800

*NA: Not Applicable



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Report No.: ENV/HCLL/22-23/SE-06/02

Date : 08/07/2022

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/22-23/SE-06/02		
02	Date of Sampling	15.06.2022		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	53		
07	Exit Velocity of Gas (m/sec)	10.4		
08	Flow Rate (Nm³/hr)	38712		
09	Type of Fuel Used	Coal		
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)	424	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NOₓ)	270	mg/Nm³	800



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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/22-23/SE-06/03		
02	Date of Sampling	16.06.2022		
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)	220		
07	Exit Velocity of Gas (m/sec)	5.9		
08	Flow Rate (Nm³/hr)	79065		
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/Nm³	30
ii.	Sulphur Dioxide (as SO₂)	BDL [#]	mg/Nm³	1000
iii.	Oxides of Nitrogen (as NO _x)	BDL [#]	mg/Nm³	800

*NA: Not Applicable

#BDL: Below Detectable Limit



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Date : 08/07/2022

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

PROCESS FUGITIVE EMISSION TEST RESULTS

Date	Locations	Fugitive Emission Results for SPM ($\mu\text{g}/\text{m}^3$)	Limits ($\mu\text{g}/\text{m}^3$)
15.06.2022	Coal Storage Section	735	2000
15.06.2022	Lime Stone Storage Section	1632	5000
16.06.2022	Fly-ash Storage Section	2146	5000
16.06.2022	Cement Packing Section	2553	5000



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Report No.: ENV/HCLL/22-23/WW-06/01

Date : 08/07/2022

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

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCLL/22-23/WW-2606/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 26.06.2022
Sample Received On : 28.06.2022
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.93	5.5 – 9.0
2.	Temperature	°C	24.5	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	29	100
4.	Biochemical Oxygen Demand	mg/l	15	30
5.	Chemical Oxygen Demand	mg/l	79	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	2.3	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	15	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0


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WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCL/22-23/WW-2606/02
Sample Type/Source : Waste Water (Treated)/ETP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 26.06.2022
Sample Received On : 28.06.2022
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.78	5.5 - 9.0
2.	Temperature	°C	24.6	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	16	100
4.	Biochemical Oxygen Demand	mg/l	19	30
5.	Chemical Oxygen Demand	mg/l	87	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	4.4	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	20	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0

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