

HCCL/MSPCB/21-22/05

Date: 24/11/21

To,
The Member Secretary,
Meghalaya State Pollution Control Board
ARDEN Lumpynggad
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 October 2021

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **October 2021** 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 (Treated)	STP Water Analysis
6	Noise Level Measurement Test	-

Thanking you,

For Hills Cement Company Ltd
HILLS CEMENT COMPANY LTD.


Authorized 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



HCCL/MSPCB/21-22/05

Date: 24/11/21

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 October 2021

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **October 2021** 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 (Treated)	STP Water Analysis
6	Noise Level Measurement Test	-

Thanking you,

For Hills Cement Company Ltd
HILLS CEMENT COMPANY LTD.


Authorized 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

Report No.: ENV/HCL/21-22/AA-10/01
Date : 08/11/2021

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

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	06.10.2021	23.4	44.6	<5.0	<6.0
02	Near Crusher Area	07.10.2021	27.8	51.9	5.2	7.5
03	In- Front of Compressor House (Cement Mill)	06.10.2021	22.5	48.4	6.2	7.8
04	Near Mines	07.10.2021	29.3	53.7	<5.0	<6.0

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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/HCCL/21-22/N-10/01
Date : 08/11/2021

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

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	06.10.2021	49.3	75	41.2	70
2	Near Crusher Area	06.10.2021	71.2	75	60.3	70
3	In- Front of Compressor House (Cement Mill)	07.10.2021	69.8	75	68.5	70
4	Near Mines	07.10.2021	46.7	75	34.3	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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/HCL/21-22/SE-10/01
Date : 08/11/2021

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/21-22/SE-10/01		
02	Date of Sampling	06.10.2021		
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)	179		
07	Exit Velocity of Gas (m/sec)	15.1		
08	Flow Rate (Nm ³ /hr)	253365		
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/Nm ³	30
ii.	Sulphur Dioxide (as SO ₂)	666	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	287	mg/Nm ³	800

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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/21-22/SE-10/02
Date : 08/11/2021

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.	HCLL/21-22/SE-10/02		
02	Date of Sampling	06.10.2021		
03	Material of Construction	M. S.		
04	Stack Attached To	Coal Mill		
05	Stack Diameter (Meter)	1.2		
06	Flue Gas Temperature (°C)	59		
07	Exit Velocity of Gas (m/sec)	13.2		
08	Flow Rate (Nm ³ /hr)	48246		
09	Type of Fuel Used	Coal		
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)	691	mg/Nm ³	1000
iii.	Oxides of Nitrogen (as NO _x)	315	mg/Nm ³	800



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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/21-22/SE-10/03
Date : 08/11/2021

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

STACK EMISSION TEST RESULTS

01	Test Ref. No.	HCCL/21-22/SE-10/03		
02	Date of Sampling	07.10.2021		
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)	221		
07	Exit Velocity of Gas (m/sec)	16.2		
08	Flow Rate (Nm ³ /hr)	216655		
09	Type of Fuel Used	NA*		
Analysis Results of Flue Gas				
Sl. No.	Parameter(s)	Result(s)	Unit(s)	Limit(s)
i.	Particulate Matter	17	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



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi - 786171, Assam.

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/HCCL/21-22/WW-10/01
Date : 08/11/2021

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-0710/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 07.10.2021
Sample Received On : 09.10.2021
Analysis Protocol : IS 3025

Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit (As Per CPCB Standards)
1.	pH	--	6.71	5.5 - 9.0
2.	Temperature	°C	26.1	shall not exceed 5°C above the receiving water temperature
3.	Total Suspended Solids	mg/l	17	100
4.	Biochemical Oxygen Demand	mg/l	22	30
5.	Chemical Oxygen Demand	mg/l	91	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	2.6	50
9.	Total Kjeldahl Nitrogen (as NH ₃)	mg/l	8.7	100
10.	Free Ammonia (as NH ₃)	mg/l	<0.01	5.0



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

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.