

HCCL/MSPCB/23-24/010

Date: 13/09/2023

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 August, 2023

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of August, 2023 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 COMPANY LTD.

Tyash Baird

Authorised Signatory

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

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 (NH44), Sub Div: Khliehriat, Dist: Jaintia Hills, Meghalaya, Pin-793200

TAJ

O/C CPCB



Website: www.tajcement.com
CIN: U26942ML2003PLC007295

HCCL/MSPCB/23-24/011

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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/HCLL/23-24/AA-08/01
Date : 08/09/2023

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

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 | 28.08.2023 | 26.4 | 51.4 | <5.0 | <6.0 |
| 02 | Near Crusher Area | 28.08.2023 | 37.2 | 55.3 | 7.5 | 8.7 |
| 03 | In- Front of Compressor House (Cement Mill) | 27.08.2023 | 39.5 | 54.7 | 7.7 | 8.3 |
| 04 | Near Mines | 27.08.2023 | 30.2 | 51.3 | <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.
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Report No.: ENV/HCLL/23-24/N-08/01
Date : 08/09/2023

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 | 28.08.2023 | 52.3 | 75 | 46.8 | 70 |
| 2 | Near Crusher Area | 28.08.2023 | 69.8 | 75 | 63.7 | 70 |
| 3 | In- Front of Compressor House (Cement Mill) | 27.08.2023 | 68.1 | 75 | 65.8 | 70 |
| 4 | Near Mines | 27.08.2023 | 58.3 | 75 | 49.3 | 70 |


Date:

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Report No.: ENV/HCLL/23-24/SE-08/03
Date : 08/09/2023

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/2023/SE-08/03 | | |
|-------------------------------------|--|--------------------|--------------------|----------|
| 02 | Date of Sampling | 28.08.2023 | | |
| 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) | 171 | | |
| 07 | Exit Velocity of Gas (m/sec) | 15.5 | | |
| 08 | Flow Rate (Nm ³ /hr) | 264762 | | |
| 09 | Type of Fuel Used | NA* | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 26 | mg/Nm ³ | 30 |
| ii. | Sulphur Dioxide (as SO ₂) | 883 | mg/Nm ³ | 1000 |
| iii. | Oxides of Nitrogen (as NO _x) | 264 | mg/Nm ³ | 800 |

*NA: Not Applicable



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.

Report No.: ENV/HCCL/23-24/SE-08/02
Date : 08/09/2023

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/2023/SE-08/02 | | |
|-------------------------------------|--|--------------------|--------------------|----------|
| 02 | Date of Sampling | 27.08.2023 | | |
| 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) | 11.7 | | |
| 08 | Flow Rate (Nm ³ /hr) | 43285 | | |
| 09 | Type of Fuel Used | Coal | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 24 | mg/Nm ³ | 30 |
| ii. | Sulphur Dioxide (as SO ₂) | 601 | mg/Nm ³ | 1000 |
| iii. | Oxides of Nitrogen (as NO _x) | 202 | mg/Nm ³ | 800 |



Signature: Pankaj Baroi
Date:
Stamp: ENVIROCON DIGBOI, ASSAM

Checked By: Mr. Pankaj Baroi, ENVIROCON

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Date : 08/09/2023

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/2023/SE-08/01 | | |
|-------------------------------------|--|--------------------|--------------------|----------|
| 02 | Date of Sampling | 27.08.2023 | | |
| 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) | 227 | | |
| 07 | Exit Velocity of Gas (m/sec) | 9.5 | | |
| 08 | Flow Rate (Nm ³ /hr) | 125526 | | |
| 09 | Type of Fuel Used | NA* | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 21 | 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

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Report No.: ENV/HCL/23-24/WW-08/01
Date : 08/09/2023

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/2023/WW-3008/01
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 30.08.2023
Sample Received On : 02.09.2023
Analysis Protocol : IS 3025

| Sl. No. | Parameter(s) | Unit(s) | Result(s) | Limit (As Per CPCB Standards) |
|---------|---|---------|-----------|--|
| 1. | pH | -- | 7.21 | 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 | 30 | 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 | 2.6 | 50 |
| 9. | Total Kjeldahl Nitrogen (as NH ₃) | mg/l | 9.4 | 100 |
| 10. | Free Ammonia (as NH ₃) | mg/l | <0.01 | 5.0 |


Date:

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