



OLC MSPCB

Website: [www.tajcement.com](http://www.tajcement.com)  
CIN: U26942ML2003PLC007295

HCCL/MSPCB/22-23/05

Date: 09/09/22

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

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of Aug 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](mailto:hr@hccl.in), [info@hccl.in](mailto: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/HCCL/22-23/AA-08/01

Date : 02/09/2022

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<br>( $\mu\text{g}/\text{m}^3$ ) | PM 10<br>( $\mu\text{g}/\text{m}^3$ ) | SO <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) | NO <sub>2</sub><br>( $\mu\text{g}/\text{m}^3$ ) |
|---------|---|------------------|--|---------------------------------------|---|---|
|         | LIMIT(S) →                                  | ---              | 60                                     | 100                                   | 80  | 80  |
| 01      | In-front of Guest House                     | 10.08.2022       | 23.8                                   | 44.3                                  | 5.3   | 6.6   |
| 02      | Near Crusher Area                           | 10.08.2022       | 32.9                                   | 56.7                                  | 6.9   | 7.6   |
| 03      | In- Front of Compressor House (Cement Mill) | 11.08.2022       | 28.2                                   | 52.5                                  | 6.4   | 7.1   |
| 04      | Near Mines                                  | 11.08.2022       | 25.8                                   | 46.2                                  | 5.8   | 6.4   |

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
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  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 (CIP), NDT, Hydraulic Testing, Chartered Engineer Services etc.



Report No.: ENV/HCCL/22-23/N-08/01

Date : 02/09/2022

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         |                 |
|---------|--|---------------------|--------------------|-----------------|--------------------|-----------------|
|         |  |                     | $L_{eq}$<br>(dB-A) | Limit<br>(dB-A) | $L_{eq}$<br>(dB-A) | Limit<br>(dB-A) |
| 1       | In-front of Guest House                        | 10.08.2022          | 53.7               | 75              | 44.3               | 70              |
| 2       | Near Crusher Area                              | 10.08.2022          | 72.6               | 75              | 66.5               | 70              |
| 3       | In- Front of Compressor House<br>(Cement Mill) | 11.08.2022          | 73.1               | 75              | 65.8               | 70              |
| 4       | Near Mines                                     | 11.08.2022          | 51.3               | 75              | 41.9               | 70              |

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Report No.: ENV/HCL/22-23/SE-08/01

Date : 02/09/2022

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-08/01 |         |          |
| 02                           | Date of Sampling                         | 10.08.2022          |         |          |
| 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)             | 15.2                |         |          |
| 08                           | Flow Rate (Nm³/hr)                       | 255043              |         |          |
| 09                           | Type of Fuel Used                        | NA*                 |         |          |
| Analysis Results of Flue Gas |  |                     |         |          |
| Sl. No.                      | Parameter(s)                             | Result(s)           | Unit(s) | Limit(s) |
| i.                           | Particulate Matter                       | 23                  | mg/Nm³  | 30       |
| ii.                          | Sulphur Dioxide (as SO₂)                 | 724                 | mg/Nm³  | 1000     |
| iii.                         | Oxides of Nitrogen (as NO <sub>x</sub> ) | 361                 | mg/Nm³  | 800      |

\*NA: Not Applicable



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Report No.: ENV/HCL/22-23/SE-08/02

Date : 02/09/2022

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-08/02 |         |          |
| 02                           | Date of Sampling             | 10.08.2022          |         |          |
| 03                           | Material of Construction     | M. S.               |         |          |
| 04                           | Stack Attached To            | Coal Mill           |         |          |
| 05                           | Stack Diameter (Meter)       | 1.2                 |         |          |
| 06                           | Flue Gas Temperature (°C)    | 56                  |         |          |
| 07                           | Exit Velocity of Gas (m/sec) | 12.9                |         |          |
| 08                           | Flow Rate (Nm³/hr)           | 47580               |         |          |
| 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/Nm³  | 30       |
| ii.                          | Sulphur Dioxide (as SO₂)     | 493                 | mg/Nm³  | 1000     |
| iii.                         | Oxides of Nitrogen (as NOₓ)  | 282                 | mg/Nm³  | 800      |


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Report No.: ENV/HCL/22-23/SE-08/03  
Date : 02/09/2022

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-08/03 |         |          |
| 02                           | Date of Sampling             | 11.08.2022          |         |          |
| 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) | 5.4                 |         |          |
| 08                           | Flow Rate (Nm³/hr)           | 78905               |         |          |
| 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/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-08/01

Date : 02/09/2022

Order No.: HCCL/HO/ENV/21-22/01

Date : 08/04/2021

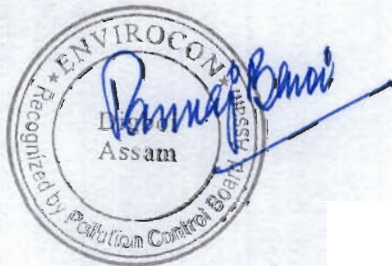
Report Issued To : **HILLS CEMENT COMPANY LIMITED**

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-2108/01  
Sample Type/Source : Waste Water (Treated)/STP Outlet  
Sample Collected By : Representative of ENVIROCON  
Sample Collected On : 21.08.2022  
Sample Received On : 23.08.2022  
Analysis Protocol : IS 3025

| Sl. No. | Parameter(s)                                  | Unit(s) | Result(s) | Limit<br>(As Per CPCB Standards)                           |
|---------|---|---------|-----------|--|
| 1.      | pH  | --      | 6.80      | 5.5 - 9.0  |
| 2.      | Temperature                                   | °C      | 23.4      | shall not exceed 5°C above the receiving water temperature |
| 3.      | Total Suspended Solids                        | mg/l    | 25        | 100  |
| 4.      | Biochemical Oxygen Demand                     | mg/l    | 21        | 30   |
| 5.      | Chemical Oxygen Demand                        | mg/l    | 83        | 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    | 2.4       | 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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