

HCCL/MSPCB/21-22/04

Date: 25/10/21

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

Subject: Reports on Ambient Air Quality test, Stack Emission test, Fugitive Emission, Waste Water Analysis (STP & ETP) & Noise Level Measurement Test for the month of September 2021

Dear Sir,

Please find enclosed herewith to this letter the reports for the month of **September 2021** for the following test results:

| SI 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 (Treated & Raw) | 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, Lumbatngan, Shillong 793021 for information

HILLS CEMENT COMPANY LIMITED



O/c ② MOEFCC

Website: www.tajcement.com
CIN: U26942ML2003PLC007295

HCCL/MSPCB/21-22/04

Date: 25/10/21

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The Member Secretary,
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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 September 2021

Dear Sir,

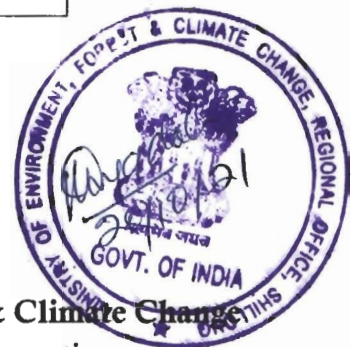
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**HILLS CEMENT COMPANY LIMITED**

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/HCLL/21-22/AA-09/01

Date : 18/09/2021

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

AMBIENT AIR QUALITY TEST RESULTS

| Sl. No. | LOCATION(S) ↓ | Date of Sampling | PM 2.5 (µg/m³) | PM 10 (µg/m³) | SO ₂ (µg/m³) | NO ₂ (µg/m³) |
|---------|---|------------------|----------------|---------------|-------------------------|-------------------------|
| | LIMIT(S) → | --- | 60 | 100 | 80 | 80 |
| 01 | In-front of Guest House | 02.09.2021 | 19.3 | 41.6 | <5.0 | <6.0 |
| 02 | Near Crusher Area | 02.09.2021 | 27.3 | 52.1 | 6.2 | 7.2 |
| 03 | In- Front of Compressor House (Cement Mill) | 03.09.2021 | 24.8 | 47.6 | 6.5 | 7.7 |
| 04 | Near Mines | 03.09.2021 | 31.4 | 62.4 | <5.0 | <6.0 |

Analysis Protocol: IS 5182



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/HCLL/21-22/WW-09/01

Date : 18/09/2021

Order No.: Verbal

Date :

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-0409/01
Sample Type/Source : Waste Water (Raw)/STP Inlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 04.09.2021
Sample Received On : 06.09.2021
Analysis Protocol : IS 3025

| Sl. No. | Parameter(s) | Unit(s) | Result(s) | Limit (As Per CPCB Standards) |
|---------|---|---------|-----------|--|
| 1. | pH | -- | 6.46 | 5.5 ~ 9.0 |
| 2. | Temperature | °C | 27.2 | shall not exceed 5°C above the receiving water temperature |
| 3. | Total Suspended Solids | mg/l | 52 | 100 |
| 4. | Biochemical Oxygen Demand | mg/l | 48 | 30 |
| 5. | Chemical Oxygen Demand | mg/l | 277 | 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 | 32 | 50 |
| 9. | Total Kjeldahl Nitrogen (as NH ₃) | mg/l | 52 | 100 |
| 10. | Free Ammonia (as NH ₃) | mg/l | 0.42 | 5.0 |



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Report No.: ENV/HCCL/21-22/WW-09/02

Date : 18/09/2021

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-0409/02
Sample Type/Source : Waste Water (Treated)/STP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 04.09.2021
Sample Received On : 06.09.2021
Analysis Protocol : IS 3025

| Sl. No. | Parameter(s) | Unit(s) | Result(s) | Limit (As Per CPCB Standards) |
|---------|---|---------|-----------|--|
| 1. | pH | -- | 6.72 | 5.5 – 9.0 |
| 2. | Temperature | °C | 27.2 | shall not exceed 5°C above the receiving water temperature |
| 3. | Total Suspended Solids | mg/l | 13 | 100 |
| 4. | Biochemical Oxygen Demand | mg/l | 19 | 30 |
| 5. | Chemical Oxygen Demand | mg/l | 106 | 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 | 8.5 | 50 |
| 9. | Total Kjeldahl Nitrogen (as NH ₃) | mg/l | 16 | 100 |
| 10. | Free Ammonia (as NH ₃) | mg/l | <0.01 | 5.0 |



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Report No.: ENV/HCCL/21-22/WW-09/03

Date : 18/09/2021

Order No.: Verbal

Date :

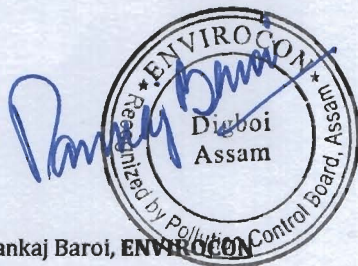
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Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

WASTE WATER ANALYSIS RESULTS

Sample Ref. No. : HCCL/21-22/WW-0409/03
Sample Type/Source : Waste Water (Raw)/ETP Inlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 04.09.2021
Sample Received On : 06.09.2021
Analysis Protocol : IS 3025

| Sl. No. | Parameter(s) | Unit(s) | Result(s) | Limit (As Per CPCB Standards) |
|---------|---|---------|-----------|--|
| 1. | pH | -- | 6.47 | 5.5 – 9.0 |
| 2. | Temperature | °C | 27.2 | shall not exceed 5°C above the receiving water temperature |
| 3. | Total Suspended Solids | mg/l | 61 | 100 |
| 4. | Biochemical Oxygen Demand | mg/l | 41 | 30 |
| 5. | Chemical Oxygen Demand | mg/l | 312 | 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 | 21 | 50 |
| 9. | Total Kjeldahl Nitrogen (as NH ₃) | mg/l | 36 | 100 |
| 10. | Free Ammonia (as NH ₃) | mg/l | 0.31 | 5.0 |



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Report No.: ENV/HCCL/21-22/WW-09/04

Date : 18/09/2021

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

Date : 08/04/2021

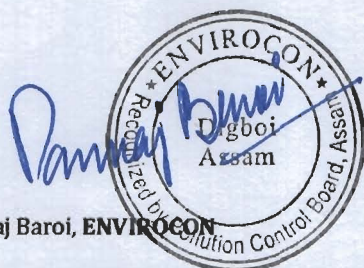
Report Issued To : **HILLS CEMENT COMPANY LIMITED**

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-0409/04
Sample Type/Source : Waste Water (Treated)/ETP Outlet
Sample Collected By : Representative of ENVIROCON
Sample Collected On : 04.09.2021
Sample Received On : 06.09.2021
Analysis Protocol : IS 3025

| Sl. No. | Parameter(s) | Unit(s) | Result(s) | Limit (As Per CPCB Standards) |
|---------|---|---------|-----------|--|
| 1. | pH | -- | 6.81 | 5.5 - 9.0 |
| 2. | Temperature | °C | 27.2 | shall not exceed 5°C above the receiving water temperature |
| 3. | Total Suspended Solids | mg/l | 21 | 100 |
| 4. | Biochemical Oxygen Demand | mg/l | 23 | 30 |
| 5. | Chemical Oxygen Demand | mg/l | 131 | 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 | 9.3 | 50 |
| 9. | Total Kjeldahl Nitrogen (as NH ₃) | mg/l | 14 | 100 |
| 10. | Free Ammonia (as NH ₃) | mg/l | <0.01 | 5.0 |



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Report No.: ENV/HCLL/21-22/SW-09/01

Date : 18/09/2021

Order No.: Verbal

Date :

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

Village: Mynkree, 116 KM Stone, NH-44, Sub Division: Khliehriat, Dist.: Jaintia Hills, Meghalaya

TEST RESULTS

Sample Ref. No.: HCCL/21-22/SW-0409/01

Sample Source: Surface Water Storage Tank

Sample Type: Surface Water

Collected On : 04-09-2021

Received On : 06-09-2021

Collected By: Envirocon Representative

| Sl. No. | Parameters | Results | Tolerance Limit* (Class - C) |
|---------|--|---------|---------------------------------|
| 1. | Colour, Hazen Units, Max. | 11 | 300 |
| 2. | pH Value | 6.71 | 6.5 - 8.5 |
| 3. | Dissolved Oxygen, mg/l, Min. | 5.8 | 4.0 |
| 4. | Total Dissolved Solids, mg/l, Max. | 246 | 1500 |
| 5. | Biochemical Oxygen Demand, mg/l, Max. | Nil | 3.0 |
| 6. | Oil and Grease, mg/l, Max. | <0.01 | 0.1 |
| 7. | Lead (as Pb), mg/l, Max. | <0.01 | 0.1 |
| 8. | Copper (as Cu), mg/l, Max. | <0.01 | 1.5 |
| 9. | Arsenic (as As), mg/l, Max. | <0.01 | 0.2 |
| 10. | Iron (as Fe), mg/l, Max. | 0.026 | 50 |
| 11. | Zinc (as Zn), mg/l, Max. | <0.01 | 15 |
| 12. | Fluorides (as F), mg/l, Max. | <0.01 | 1.5 |
| 13. | Chlorides (as Cl), mg/l, Max. | 2.3 | 600 |
| 14. | Chromium (as Cr ⁶⁺), mg/l, Max. | <0.01 | 0.05 |
| 15. | Cyanides (as CN), mg/l, Max. | <0.01 | 0.05 |
| 16. | Phenolic Compounds (as C ₆ H ₅ OH), mg/l, Max. | <0.001 | 0.005 |
| 17. | Sulphates (as SO ₄), mg/l, Max. | 20 | 400 |
| 18. | Nitrates (as NO ₃), mg/l, Max. | 1.3 | 50 |
| 19. | Total Coliform Organisms, MPN/100 ml, Max. | 600 | 5000 |

*Limits as per IS 2296:1982

Analysis Protocol: IS 3025

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Report No.: ENV/HCLL/21-22/N-09/01

Date : 18/09/2021

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

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 | 02.09.2021 | 48.2 | 75 | 36.8 | 70 |
| 2 | Near Crusher Area | 02.09.2021 | 66.9 | 75 | 59.4 | 70 |
| 3 | In- Front of Compressor House (Cement Mill) | 03.09.2021 | 69.2 | 75 | 65.3 | 70 |
| 4 | Near Mines | 03.09.2021 | 45.6 | 75 | 34.8 | 70 |

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Date : 18/09/2021

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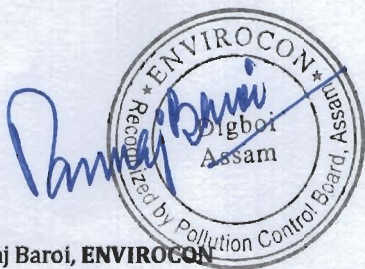
Report Issued To : **HILLS CEMENT COMPANY LIMITED**

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-09/01 | | |
| 02 | Date of Sampling | 02.09.2021 | | |
| 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) | 18.2 | | |
| 08 | Flow Rate (Nm³/hr) | 305380 | | |
| 09 | Type of Fuel Used | NA* | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 22 | mg/Nm³ | 30 |
| ii. | Sulphur Dioxide (as SO₂) | 742 | mg/Nm³ | 1000 |
| iii. | Oxides of Nitrogen (as NOₓ) | 385 | mg/Nm³ | 800 |

*NA: Not Applicable



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Report No.: ENV/HCL/21-22/SE-09/02

Date : 18/09/2021

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/21-22/SE-09/02 | | |
| 02 | Date of Sampling | 02.09.2021 | | |
| 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) | 14.6 | | |
| 08 | Flow Rate (Nm³/hr) | 53363 | | |
| 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/Nm³ | 30 |
| ii. | Sulphur Dioxide (as SO₂) | 645 | mg/Nm³ | 1000 |
| iii. | Oxides of Nitrogen (as NOₓ) | 256 | 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/21-22/SE-09/03 | | |
| 02 | Date of Sampling | 03.09.2021 | | |
| 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) | 216 | | |
| 07 | Exit Velocity of Gas (m/sec) | 16.7 | | |
| 08 | Flow Rate (Nm³/hr) | 225626 | | |
| 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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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 ($\mu\text{g}/\text{m}^3$) |
|------------|----------------------------|---|--|
| 02.09.2021 | Coal Storage Section | 794 | 2000 |
| 02.09.2021 | Lime Stone Storage Section | 2155 | 5000 |
| 03.09.2021 | Fly-ash Storage Section | 2846 | 5000 |
| 03.09.2021 | Cement Packing Section | 2946 | 5000 |


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