



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 12.02.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

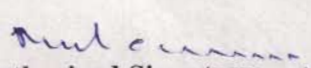
Dear Sir,

We are herewith submitting the Ambient Air Quality Survey report, Ambient Noise Survey report and Water Analysis report for the month of **January'2024** for Limestone mining for an area of 31.05 Ha, at South Khliehjeri.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED


Authorized Signatory



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 2345421/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
Web : www.topcem.in

Kolkata :
BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel. : 033 2334 0666 / 0004
Fax : 033 2334 0505
E-mail : kolkata@topcem.in

Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : +91 89742 17765 / 70850 58469 / 98625 09599
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

Report No.: ENV/MCL/23-24/AA-01/01

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, 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 | Near Soil Dump | 22.01.2024 | 27.5 | 55.3 | 7.3 | 7.9 |
| 02 | Near Haul Road | 22.01.2024 | 30.6 | 57.4 | 7.6 | 8.2 |
| 03 | Near Lease Boundary | 22.01.2024 | 24.3 | 49.8 | 6.7 | 7.2 |

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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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/MCL/23-24/AA-01/01
Date: 08/02/2024

Order No.: 4700029031
Date: 12/01/2024

Report Issued To: **MEGHALAYA CEMENTS LIMITED**
Village: Thangskai, PO: Lumshong, Meghalaya

AMBIENT AIR QUALITY TEST RESULTS

| LOCATIONS ↓ | Date of Sampling | PM 2.5 (µg/m³) | PM 10 (µg/m³) | SO ₂ (µg/m³) | NO ₂ (µg/m³) | NH ₃ (µg/m³) | CO (mg/m³) | O ₃ (µg/m³) | B(a)P (ng/m³) | CaH ₆ (µg/m³) | Ni (ng/m³) | As (ng/m³) | Pb (µg/m³) |
|--------------------|------------------|----------------------|-----------------------|-------------------------|-------------------------|-------------------------|---------------------|------------------------|----------------------|--------------------------|---------------------|----------------------|-----------------------|
| LIMITS → | - | 60 (24 hrs. Average) | 100 (24 hrs. Average) | 80 (24 hrs. Average) | 80 (24 hrs. Average) | 400 (24 hrs. Average) | 4.0 (1 hr. Average) | 180 (1 hr. Average) | 1.0 (Annual Average) | 5.0 (Annual Average) | 20 (Annual Average) | 6.0 (Annual Average) | 1.0 (24 hrs. Average) |
| Residential Colony | 21.01.2024 | 18.6 | 38.7 | <5.0 | <6.0 | <5.0 | <0.01 | <1.0 | <0.1 | <0.01 | <0.01 | <0.01 | <0.01 |
| Wahiajer Village | 21.01.2024 | 20.9 | 42.7 | <5.0 | <6.0 | <5.0 | <0.01 | <1.0 | <0.1 | <0.01 | <0.01 | <0.01 | <0.01 |

Analysis Protocol: IS 5182



Checked By: Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/N-01/02

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, 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 | Mines Haul Road | 22.01.2024 | 63.4 | 75 | 57.5 | 70 |
| 2 | Near Soil Dump | 22.01.2024 | 64.7 | 75 | 55.8 | 70 |
| 3 | Near Lease Boundary | 22.01.2024 | 61.9 | 75 | 52.4 | 70 |



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/MCL/23-24/SW-01/02
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: MCL/2024/SW-2201/02
Collected On : 22-01-2024

Sample Source : Um-Lunar River Downstream
Received On : 25-01-2024

Sample Type : Surface Water
Collected By : Envirocon Representative

| Sl. No. | Parameters | Results | Acceptable Limit* | Permissible Limit* in the Absence of Alternate Source |
|---------|---|-----------|-------------------|---|
| 1. | Colour, Hazen Units, Max. | 6 | 5 | 15 |
| 2. | Odour | Agreeable | Agreeable | Agreeable |
| 3. | Temperature | 24.4 | -- | -- |
| 4. | pH Value | 6.71 | 6.5 - 8.5 | No Relaxation |
| 5. | Suspended Solids | 32 | -- | -- |
| 6. | Total Dissolved Solids, mg/l, Max. | 128 | 500 | 2000 |
| 7. | Conductivity, μ S/cm | 205 | -- | -- |
| 8. | Dissolved Oxygen, mg/l, Min. | 7.2 | -- | -- |
| 9. | Biochemical Oxygen Demand, mg/l, Max. | <1 | -- | -- |
| 10. | Chemical Oxygen Demand, mg/l, Max. | 28 | -- | -- |
| 11. | Oil and Grease, mg/l, Max. | Nil | -- | -- |
| 12. | Residual Chlorine, mg/l, Min. | <0.01 | 0.2 | 1 |
| 13. | Total Hardness (as CaCO_3), mg/l, Max. | 7.1 | 200 | 600 |
| 14. | Calcium (as Ca), mg/l, Max. | 15 | 75 | 200 |
| 15. | Magnesium (as Mg), mg/l, Max. | 4 | 30 | 100 |
| 16. | Iron (as Fe), mg/l, Max. | <0.001 | 0.3 | No Relaxation |
| 17. | Total Chromium, (as Cr), mg/l, Max | <0.001 | 0.05 | No Relaxation |
| 18. | Ammonical Nitrogen (as N), mg/l, Max. | 1.5 | -- | -- |
| 19. | Total Kjeldahl Nitrogen (as NH_3), mg/l, Max. | 6.8 | -- | -- |
| 20. | Free Ammonia (as NH_3), mg/l, Max. | <0.01 | -- | -- |

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SW-01/01
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No.: MCL/2024/SW-2201/01
Collected On : 22-01-2024

Sample Source : Um-Lunar River Upstream
Received On : 25-01-2024

Sample Type : Surface Water
Collected By : Envirocon Representative

| Sl. No. | Parameters | Results | Acceptable Limit* | Permissible Limit* in the Absence of Alternate Source |
|---------|---|-----------|-------------------|---|
| 1. | Colour, Hazen Units, Max. | 10 | 5 | 15 |
| 2. | Odour | Agreeable | Agreeable | Agreeable |
| 3. | Temperature | 24.4 | -- | -- |
| 4. | pH Value | 6.75 | 6.5 - 8.5 | No Relaxation |
| 5. | Suspended Solids | 35 | -- | -- |
| 6. | Total Dissolved Solids, mg/l, Max. | 142 | 500 | 2000 |
| 7. | Conductivity, μ S/cm | 193 | -- | -- |
| 8. | Dissolved Oxygen, mg/l, Min. | 6.9 | -- | -- |
| 9. | Biochemical Oxygen Demand, mg/l, Max. | <1 | -- | -- |
| 10. | Chemical Oxygen Demand, mg/l, Max. | 35 | -- | -- |
| 11. | Oil and Grease, mg/l, Max. | Nil | -- | -- |
| 12. | Residual Chlorine, mg/l, Min. | <0.01 | 0.2 | 1 |
| 13. | Total Hardness (as CaCO_3), mg/l, Max. | 7.6 | 200 | 600 |
| 14. | Calcium (as Ca), mg/l, Max. | 20 | 75 | 200 |
| 15. | Magnesium (as Mg), mg/l, Max. | 5 | 30 | 100 |
| 16. | Iron (as Fe), mg/l, Max. | <0.001 | 0.3 | No Relaxation |
| 17. | Total Chromium, (as Cr), mg/l, Max | <0.001 | 0.05 | No Relaxation |
| 18. | Ammonical Nitrogen (as N), mg/l, Max. | 1.9 | -- | -- |
| 19. | Total Kjeldahl Nitrogen (as NH_3), mg/l, Max. | 7.9 | -- | -- |
| 20. | Free Ammonia (as NH_3), mg/l, Max. | <0.01 | -- | -- |

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON



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MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 12.02.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the Ambient Air Quality survey report along with stack analysis report, Ambient Noise survey report and Water analysis report for the month of **January'2024** for **2600 TPD Cement Manufacturing Plant** along with **10 MW Captive Power Plant** report respectively.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED



Mul...
Authorized Signatory



Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 2345421/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
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BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel. : 033 2334 0666 / 0004
Fax : 033 2334 0505
E-mail : kolkata@topcem.in

Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : +91 89742 17765 / 70850 58469 / 98625 09599
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

Report No.: ENV/MCL/23-24/AA-01/02
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, 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 | Near DG House | 20.01.2024 | 30.4 | 53.7 | 6.9 | 8.3 |
| 02 | Near CCR Building | 20.01.2024 | 34.7 | 59.2 | 6.5 | 7.1 |

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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MEGHALAYA CEMENTS LIMITED

CPP AMBIENT AIR QUALITY SURVEY

| Location of sampling | CPP, MCL, Thangskai | | |
|--|---|--|---|
| Date of sampling | 4.01.2024 | | |
| Distance between the industry and sampling Location | 25.0 meters 25.0 meters 25.0 meters | | |
| Time duration of sampling | 24hrs | | |
| Weather | Clear | | |
| Total Rainfall,mm(On Date) | 0.00 mm | | |
| Ambient Temperature(^o C): | | | |
| Maximum: | 24.09 | | |
| Minimum: | 10.25 | | |
| Relative Humidity (%): | | | |
| Maximum: | 106.94 | | |
| Minimum: | 49.04 | | |
| Wind direction (in Degree) | →S(191.14) | | |
| Pollutants | Analysis results | | |
| | Station No. & Air Quality Survey No. | | |
| | 1)Old Yard side S to E B/28/2023-24 | 2)Labour colony side S to W B/29/2023-24 | 3)JUNGLE Side N to E B/30/2023-24 |
| | 24 hrs. | 24 hrs. | 24 hrs. |
| Suspended Particulate Matters PM ₁₀ (µg/m ³) | 34.72 | 32.72 | 31.16 |
| Suspended Particulate Matters PM _{2.5} (µg/m ³) | 21.89 | 17.94 | 19.2 |
| | | | 100µg/m ³ 60µg/m ³ |

Remarks: The parameters were analyzed and found within the permissible limits of Ambient Air Quality Standards (National) as per as the EPA Notification G.S.R.826 (E) dated 16th Nov 2009.

Prepared by

(Abhigyan Gautam)

Checked & Verified by

(Kamalesh kr. choudhary)

Report No.: ENV/MCL/23-24/N-01/01

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, 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 | Residential Colony | 21.01.2024 | 42.9 | 55 | 37.3 | 45 |
| 2 | Near Limestone Crusher | 21.01.2024 | 67.9 | 75 | 63.4 | 70 |
| 3 | Near CCR Building | 21.01.2024 | 70.2 | 75 | 66.8 | 70 |



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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MEGHALAYA CEMENTS LIMITED

MONTHLY REPORT: NOISE INTENSITY

January'24

| Location | | <u>Noise Intensity: dB (A) Leq</u> | |
|------------------------|-------|------------------------------------|---|
| | | Noise Value in dB (A) Leq | Noise Level not to exceed, in dB (A) Leq |
| Captive Power Plant | Day | 59 | 75 |
| | Night | 41 | 70 |
| DG House | Day | 61 | 75 |
| | Night | 42 | 70 |
| Guest House | Day | 48 | 75 |
| | Night | 39 | 70 |
| Crusher | Day | 62 | 75 |
| | Night | 43 | 70 |

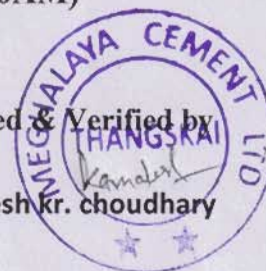
NOTE: Day Time (6:00AM to 9:00PM), Night Time (9:00PM to 6:00AM)

Prepared by

Abhigyan Gautam

Checked & Verified by

Kamalesh kr. choudhary



Report No.: ENV/MCL/23-24/SE-01/01

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|-------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/01 | | |
| 02 | Date of Sampling | 20.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Coal Mill – 1 | | |
| 05 | Stack Diameter (Meter) | 1.18 | | |
| 06 | Flue Gas Temperature (°C) | 53 | | |
| 07 | Exit Velocity of Gas (m/sec) | 12.4 | | |
| 08 | Flow Rate (Nm³/hr) | 44631 | | |
| 09 | Type of Fuel Used | NA* | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 20 | mg/Nm³ | 30 |

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|-------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/02 | | |
| 02 | Date of Sampling | 20.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Coal Mill – 2 | | |
| 05 | Stack Diameter (Meter) | 1.18 | | |
| 06 | Flue Gas Temperature (°C) | 48 | | |
| 07 | Exit Velocity of Gas (m/sec) | 17.3 | | |
| 08 | Flow Rate (Nm³/hr) | 63237 | | |
| 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 |

*NA: Not Applicable



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Date : 08/02/2024

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Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|---------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/03 | | |
| 02 | Date of Sampling | 20.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Cooler E. S. P. – 1 | | |
| 05 | Stack Diameter (Meter) | 2.8 | | |
| 06 | Flue Gas Temperature (°C) | 227 | | |
| 07 | Exit Velocity of Gas (m/sec) | 10.6 | | |
| 08 | Flow Rate (Nm³/hr) | 140061 | | |
| 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 |

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/MCL/23-24/SE-01/04
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|---------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/04 | | |
| 02 | Date of Sampling | 20.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Cooler E. S. P. – 2 | | |
| 05 | Stack Diameter (Meter) | 2.8 | | |
| 06 | Flue Gas Temperature (°C) | 229 | | |
| 07 | Exit Velocity of Gas (m/sec) | 10.9 | | |
| 08 | Flow Rate (Nm³/hr) | 143451 | | |
| 09 | Type of Fuel Used | NA* | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 27 | mg/Nm³ | 30 |

*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/MCL/23-24/SE-01/05
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|---------------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/05 | | |
| 02 | Date of Sampling | 21.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | RABH (Kiln & Raw Mill)- 1 | | |
| 05 | Stack Diameter (Meter) | 3.0 | | |
| 06 | Flue Gas Temperature (°C) | 182 | | |
| 07 | Exit Velocity of Gas (m/sec) | 17.9 | | |
| 08 | Flow Rate (Nm³/hr) | 298366 | | |
| 09 | Type of Fuel Used | Kiln 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) | 638 | mg/Nm³ | 1000 |
| iii. | Oxides of Nitrogen (as NOₓ) | 355 | mg/Nm³ | 600 |



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/MCL/23-24/SE-01/06

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|---------------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/06 | | |
| 02 | Date of Sampling | 21.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | RABH (Kiln & Raw Mill)- 2 | | |
| 05 | Stack Diameter (Meter) | 3.0 | | |
| 06 | Flue Gas Temperature (°C) | 180 | | |
| 07 | Exit Velocity of Gas (m/sec) | 22.3 | | |
| 08 | Flow Rate (Nm³/hr) | 325228 | | |
| 09 | Type of Fuel Used | Kiln Coal | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 17 | mg/Nm³ | 30 |
| ii. | Sulphur Dioxide (as SO₂) | 655 | mg/Nm³ | 1000 |
| iii. | Oxides of Nitrogen (as NOₓ) | 347 | mg/Nm³ | 600 |



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/MCL/23-24/SE-01/07

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|-------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/07 | | |
| 02 | Date of Sampling | 21.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Cement Mill No. 1 | | |
| 05 | Stack Diameter (Meter) | 1.2 | | |
| 06 | Flue Gas Temperature (°C) | 73 | | |
| 07 | Exit Velocity of Gas (m/sec) | 13.6 | | |
| 08 | Flow Rate (Nm³/hr) | 47697 | | |
| 09 | Type of Fuel Used | NA* | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 27 | mg/Nm³ | 30 |

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-01/08
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|-------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/08 | | |
| 02 | Date of Sampling | 21.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Cement Mill No. 2 | | |
| 05 | Stack Diameter (Meter) | 1.2 | | |
| 06 | Flue Gas Temperature (°C) | 67 | | |
| 07 | Exit Velocity of Gas (m/sec) | 14.3 | | |
| 08 | Flow Rate (Nm³/hr) | 51037 | | |
| 09 | Type of Fuel Used | NA* | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 25 | mg/Nm³ | 30 |

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/MCL/23-24/SE-01/10

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|-------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/10 | | |
| 02 | Date of Sampling | 22.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Primary Crusher | | |
| 05 | Stack Diameter (Meter) | 1.19 | | |
| 06 | Flue Gas Temperature (°C) | 28 | | |
| 07 | Exit Velocity of Gas (m/sec) | 4.1 | | |
| 08 | Flow Rate (Nm³/hr) | 16255 | | |
| 09 | Type of Fuel Used | NA* | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 14 | mg/Nm³ | 30 |

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/MCL/23-24/SE-01/11
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|-------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/11 | | |
| 02 | Date of Sampling | 22.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Secondary Crusher | | |
| 05 | Stack Diameter (Meter) | 1.0 | | |
| 06 | Flue Gas Temperature (°C) | 31 | | |
| 07 | Exit Velocity of Gas (m/sec) | 4.9 | | |
| 08 | Flow Rate (Nm³/hr) | 13583 | | |
| 09 | Type of Fuel Used | NA* | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 13 | mg/Nm³ | 30 |

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/MCL/23-24/SE-01/12
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To: **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|---------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/12 | | |
| 02 | Date of Sampling | 22.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Packing Plant No. 1 | | |
| 05 | Stack Diameter (Meter) | 0.6 | | |
| 06 | Flue Gas Temperature (°C) | 30 | | |
| 07 | Exit Velocity of Gas (m/sec) | 12.7 | | |
| 08 | Flow Rate (Nm³/hr) | 12504 | | |
| 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 |

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, ENVIROCON

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Report No.: ENV/MCL/23-24/SE-01/13
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|---------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/13 | | |
| 02 | Date of Sampling | 22.01.2024 | | |
| 03 | Material of Construction | M. S. | | |
| 04 | Stack Attached To | Packing Plant No. 2 | | |
| 05 | Stack Diameter (Meter) | 1.0 | | |
| 06 | Flue Gas Temperature (°C) | 32 | | |
| 07 | Exit Velocity of Gas (m/sec) | 14.6 | | |
| 08 | Flow Rate (Nm³/hr) | 40338 | | |
| 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 |

*NA: Not Applicable



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/MCL/23-24/SE-01/09
Date : 08/02/2024

Order No.: 4700029031
Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

STACK EMISSION TEST RESULTS

| | | | | |
|------------------------------|------------------------------|---------------------------|---------|----------|
| 01 | Test Ref. No. | MCL/2024/SE-01/09 | | |
| 02 | Date of Sampling | 21.01.2024 | | |
| 03 | Material of Construction | Refractory Brick | | |
| 04 | Stack Attached To | Captive Power Plant (CPP) | | |
| 05 | Stack Diameter (Meter) | 2.53 | | |
| 06 | Flue Gas Temperature (°C) | 98 | | |
| 07 | Exit Velocity of Gas (m/sec) | 7.2 | | |
| 08 | Flow Rate (Nm³/hr) | 104680 | | |
| 09 | Type of Fuel Used | Coal | | |
| Analysis Results of Flue Gas | | | | |
| Sl. No. | Parameter(s) | Result(s) | Unit(s) | Limit(s) |
| i. | Particulate Matter | 44 | mg/Nm³ | 50 |
| ii. | Sulphur Dioxide (as SO₂) | 320 | mg/Nm³ | 600 |
| iii. | Oxides of Nitrogen (as NOₓ) | 164 | mg/Nm³ | 300 |
| iv. | Mercury (as Hg) | 0.015 | mg/Nm³ | 0.03 |



Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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Report No.: ENV/MCL/23-24/SW-01/02

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2201/02

Sample Source : Um-Lunar River Downstream

Sample Type : Surface Water

Collected On : 22-01-2024

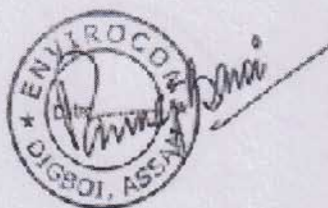
Received On : 25-01-2024

Collected By : Envirocon Representative

| Sl. No. | Parameters | Results | Acceptable Limit* | Permissible Limit* in the Absence of Alternate Source |
|---------|---|-----------|-------------------|---|
| 1. | Colour, Hazen Units, Max. | 6 | 5 | 15 |
| 2. | Odour | Agreeable | Agreeable | Agreeable |
| 3. | Temperature | 24.4 | -- | -- |
| 4. | pH Value | 6.71 | 6.5 - 8.5 | No Relaxation |
| 5. | Suspended Solids | 32 | -- | -- |
| 6. | Total Dissolved Solids, mg/l, Max. | 128 | 500 | 2000 |
| 7. | Conductivity, μ S/cm | 205 | -- | -- |
| 8. | Dissolved Oxygen, mg/l, Min. | 7.2 | -- | -- |
| 9. | Biochemical Oxygen Demand, mg/l, Max. | <1 | -- | -- |
| 10. | Chemical Oxygen Demand, mg/l, Max. | 28 | -- | -- |
| 11. | Oil and Grease, mg/l, Max. | Nil | -- | -- |
| 12. | Residual Chlorine, mg/l, Min. | <0.01 | 0.2 | 1 |
| 13. | Total Hardness (as CaCO_3), mg/l, Max. | 7.1 | 200 | 600 |
| 14. | Calcium (as Ca), mg/l, Max. | 15 | 75 | 200 |
| 15. | Magnesium (as Mg), mg/l, Max. | 4 | 30 | 100 |
| 16. | Iron (as Fe), mg/l, Max. | <0.001 | 0.3 | No Relaxation |
| 17. | Total Chromium, (as Cr), mg/l, Max | <0.001 | 0.05 | No Relaxation |
| 18. | Ammonical Nitrogen (as N), mg/l, Max. | 1.5 | -- | -- |
| 19. | Total Kjeldahl Nitrogen (as NH_3), mg/l, Max. | 6.8 | -- | -- |
| 20. | Free Ammonia (as NH_3), mg/l, Max. | <0.01 | -- | -- |

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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/MCL/23-24/SW-01/01

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : MCL/2024/SW-2201/01

Collected On : 22-01-2024

Sample Source : Um-Lunar River Upstream

Received On : 25-01-2024

Sample Type : Surface Water

Collected By : Envirocon Representative

| Sl. No. | Parameters | Results | Acceptable Limit* | Permissible Limit* in the Absence of Alternate Source |
|---------|---|-----------|-------------------|---|
| 1. | Colour, Hazen Units, Max. | 10 | 5 | 15 |
| 2. | Odour | Agreeable | Agreeable | Agreeable |
| 3. | Temperature | 24.4 | -- | -- |
| 4. | pH Value | 6.75 | 6.5 - 8.5 | No Relaxation |
| 5. | Suspended Solids | 35 | -- | -- |
| 6. | Total Dissolved Solids, mg/l, Max. | 142 | 500 | 2000 |
| 7. | Conductivity, $\mu\text{S}/\text{cm}$ | 193 | -- | -- |
| 8. | Dissolved Oxygen, mg/l, Min. | 6.9 | -- | -- |
| 9. | Biochemical Oxygen Demand, mg/l, Max. | <1 | -- | -- |
| 10. | Chemical Oxygen Demand, mg/l, Max. | 35 | -- | -- |
| 11. | Oil and Grease, mg/l, Max. | Nil | -- | -- |
| 12. | Residual Chlorine, mg/l, Min. | <0.01 | 0.2 | 1 |
| 13. | Total Hardness (as CaCO_3), mg/l, Max. | 7.6 | 200 | 600 |
| 14. | Calcium (as Ca), mg/l, Max. | 20 | 75 | 200 |
| 15. | Magnesium (as Mg), mg/l, Max. | 5 | 30 | 100 |
| 16. | Iron (as Fe), mg/l, Max. | <0.001 | 0.3 | No Relaxation |
| 17. | Total Chromium, (as Cr), mg/l, Max | <0.001 | 0.05 | No Relaxation |
| 18. | Ammonical Nitrogen (as N), mg/l, Max. | 1.9 | -- | -- |
| 19. | Total Kjeldahl Nitrogen (as NH_3), mg/l, Max. | 7.9 | -- | -- |
| 20. | Free Ammonia (as NH_3), mg/l, Max. | <0.01 | -- | -- |

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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.



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 12.02.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

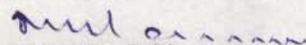
Dear Sir,

We are herewith submitting the Process Fugitive Emission report of the month January'2023 for 2600 TPD Cement Manufacturing Plant along with 10 MW Captive Power Plant report respectively.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED


Authorized Signatory



ISO 9001:2015 & 14001:2015
50001:2011 Certified Company

Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 2345421/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
Web : www.topcem.in

Kolkata :
BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel. : 033 2334 0666 / 0004
Fax : 033 2334 0505
E-mail : kolkata@topcem.in

Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : +91 89742 17765 / 70850 58469 / 98625 09599
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666

Report No.: ENV/MCL/23-24/FE-01/01

Date : 08/02/2024

Order No.: 4700029031

Date : 12/01/2024

Report Issued To : **M/S. MEGHALAYA CEMENTS LIMITED**
Village: Thangskai; PO: Lumshnong, Meghalaya

PROCESS FUGITIVE EMISSION TEST RESULTS

| Sl. No. | Locations | Date of Sampling | Results for SPM ($\mu\text{g}/\text{m}^3$) | Limits ($\mu\text{g}/\text{m}^3$) |
|---------|-------------------------|------------------|--|-------------------------------------|
| 01 | Cement Loading Point | 22.01.2024 | 945 | 2000 |
| 02 | Fly Ash Silo Area (CPP) | 21.01.2023 | 962 | 2000 |
| 03 | Clinker Loading Point | 22.01.2024 | 2237 | 5000 |
| 04 | Coal Storage Area | 22.01.2024 | 1893 | 5000 |

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.



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 12.02.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the water consumption report of 10 MWCaptive Power Plant for the month of January'2023.

Month

January'2024

Water Consumption

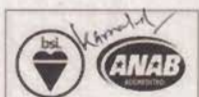
25577m³

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED

[Signature]
Authorized Signatory



ISO 9001:2015 & 14001:2015
50001:2011 Certified Company

Sales & Marketing Office :
Mega Plaza, 4th Floor, Christian Basti
G.S. Road, Guwahati - 781 005
Tel. : 0361 2345421/22/23, Fax : 0361 2345419
E-mail : guwahati@topcem.in
Web : www.topcem.in

Kolkata :
BE-77, Salt Lake City
Sector-1, Kolkata - 700 064
Tel. : 033 2334 0666 / 0004
Fax : 033 2334 0505
E-mail : kolkata@topcem.in

Registered Office :
Village: Thangskai, P.O. & P.S. Lumshnong
District : East Jaintia Hills, Meghalaya, PIN: 793210
Tel. : +91 89742 17765 / 70850 58469 / 98625 09599
E-mail : meghalaya@topcem.in



HELPLINE NO : 18001233666



MEGHALAYA CEMENTS LIMITED

CIN- U26942ML2003PLC007125



To,

Date: 12.02.2024

The Member Secretary,
Meghalaya State Pollution Control Board,
'Arden' Lumpyngngad,
Shillong, Meghalaya.

Dear Sir,

We are herewith submitting the water consumption report of 2600 TPD Cement Manufacturing Plant for the month of January'2024.

Thanking you Sir,

Yours faithfully,

For MEGHALAYA CEMENTS LIMITED



Mani Culapin
Authorized Signatory



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MEGHALAYA CEMENTS LIMITED

FORM - I

(See Rule 4)

Return: Water consumed during the month of January' 2024

| Name and Address of the consumer | Purpose for which water consumed | Source Tube Well, River etc | Reading at the beginning of the first day of the calendar month under report | Reading at the end of the last day of the calendar month under report | Quantity of water consumed in Kilolitres | If the meter was out of order the monthly average consumption of water for the previous 3 month of working periods | Quantity of water qualifying for rebate according to the assesses | Remarks (*) |
|---|----------------------------------|-----------------------------|--|---|--|--|---|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| MEGHALAYA Cements Ltd. Village - Thangskai P.O - Lumshnong Pin No 793210 Jaintia Hills - MEGHALAYA | Domestic purpose | River | (a) 445222 (b) 55401 (c) 850808 | (a) 449355 (b) 57517 (c) 854208 | 4790 | - | - | Qty. of water consumed from river water = 4790 + 12693 = 17,483 KL |
| | Industrial cooling | River | (a) 278968 (b) 248619 (c) 829209 | a) 285132 b) 259685 c) 839711 | 12693 | - | - | Qty of water circulation & returned = 11,796 + 3,243 = 15,039 KL |
| | Industrial Purpose | - | - | - | Nil | - | - | - |

For claiming the rebate under the column 7, the assesses has indicated in this column that has been analytical and the test report were annexed in this return to support the claim.

Note: (1) Initial reading of the return line flow meter at the beginning of the month = 2,863,884 Final reading of the return line flow meter at end of month = 2,875,680

(2) Initial reading of S.T.P flow meter at the beginning of the month = 164,234
Final reading of S.T.P flow meter at the end of the month = 167,477

Name of Customer
Address

